



## SUMMARY OF FIRST TERM



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## Summary of Unit One

## Approximating to the nearest hundredth and thousandth

**First** Approximating to the nearest hundredth "2 decimal places"

- To approximate to the nearest hundredth , do as follows :

Look at the digit written at the **thousandth's place**

IF

This digit is

**Less than 5**

Leave out the digit at the **thousandth's place** and the other digits to the right.

For Example :

$$28.342 = 28.34$$

**Equal to 5 or more**

Increase the digit at the **hundredth's place** by one, and leave out other digits to the right.

For Example :

$$7.1271 = 7.13$$

**Second** Approximating to the nearest thousandth "3 decimal places"

- To approximate to the nearest thousandth , do as follows :

Look at the digit written at the **ten thousandth's place**

IF

This digit is

**Less than 5**

Leave out the digit at the **ten thousandth's place** and the other digits to the right.

For Example :

$$73.3421 = 73.342$$

**Equal to 5 or more**

Increase the digit at the **thousandth's place** by one, and leave out other digits to the right.

For Example :

$$57.2408 = 57.241$$





## Comparing and ordering fractions

### First Comparing two fractions of the same denominator

To compare any two fractions having the **same denominator**, compare their numerators, where the fraction with the **greater numerator** is **greater** than the other fraction.

For Example :

$$\frac{5}{9} > \frac{4}{9}$$

### Second Comparing two fractions of the same numerator

To compare any two fractions having the **same numerator**, compare their denominators, where the fraction with the **smaller denominator** is **greater** than the other fraction.

For Example :

$$\frac{3}{7} > \frac{3}{8}$$

### Third Comparing two fractions of different numerators and denominators

To compare two fractions of **different numerators** and **denominators**, do as follows :

- 1 Put each of the two fractions in its **simplest form** if it isn't.
- 2 If the **numerators** or the **denominators** of the two fractions after simplifying are **equal**, then compare between them as we have studied before.
- 3 If the **numerators** and the **denominators** of the two fractions are **not equal**, then express the two fractions by two other equal fractions with least common denominator L.C.D. by using L.C.M. of the two denominators.
- 4 Compare the two new fractions.





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#### Fourth Comparing fractions and decimals

- To compare a fraction and a decimal, convert the decimal into fraction with denominator 10 , 100 , 1000 , . . . , then compare between the two fractions.

#### Multiplying decimals by 10 , 100 and 1000

- To multiply by 10 , move the decimal point 1 place to the right.

For Example:  $2.5739 \times 10 = 25.739$

- To multiply by 100 , move the decimal point 2 places to the right.

For Example:  $2.5739 \times 100 = 257.39$

- To multiply by 1000 , move the decimal point 3 places to the right.

$3.7 \times 1000 = 3700$

#### Multiplying decimals

For Example : To multiply :  $2.45 \times 0.7$  , you can follow the following steps :

- Ignore the decimal point to obtain two whole numbers **245** and **7**
- Multiply the two whole numbers :  
 $245 \times 7 = 1715$
- Add the numbers of decimal places in both initial numbers :  $2 + 1 = 3$
- Place the decimal point in the product : **1.715**

$$\begin{array}{r} 2.45 \Rightarrow 2 \text{ decimal places} \\ \times 0.7 \Rightarrow 1 \text{ decimal place} \\ \hline 1.715 \Rightarrow 3 \text{ decimal places} \end{array}$$

#### Multiplying fractions

##### First Multiplying two fractions

- To multiply two fractions , do as follows :

- Multiply the numerators of the two fractions to get the numerator of the product.
- Multiply the denominators of the two fractions to get the denominator of the product.
- Put the resulting fraction in its simplest form.

For Example :

$$\frac{1}{3} \times \frac{6}{7} = \frac{1 \times 6}{3 \times 7} = \frac{6}{21} = \frac{2}{7}$$

Another solution :

$$\frac{1}{3} \times \frac{6^2}{7} = \frac{1 \times 2}{1 \times 7} = \frac{2}{7}$$





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## Second Multiplying a whole number by a fraction

• To multiply a whole number by a fraction , do as follows :

- ① Change the whole number to a fraction by placing it over a denominator of 1
- ② Multiply the numerators.
- ③ Multiply the denominators.

For Example :

$$\frac{1}{6} \times 27 = \frac{1}{6} \times \frac{27}{1} = \frac{1}{2 \cdot 3} \times \frac{27^9}{1} = \frac{1 \times 9}{2 \times 1} = \frac{9}{2} = 4 \frac{1}{2}$$

## Third Multiplying a mixed number by a fraction or a mixed number

• To multiply a mixed number by a fraction or a mixed number , do as follows :

- ① Change the mixed number into an improper fraction.
- ② Multiply the two fractions as shown in multiplying two fractions.

For Example :

$$1 \frac{1}{4} \times \frac{3}{10} = \frac{5^1}{4} \times \frac{3}{2 \cdot 5} = \frac{3}{8}$$

## Dividing fractions

To divide a fraction by another fraction :

Exchange the numerator and the denominator of the second fraction (the divisor) , then multiply it by the first fraction.

For Example :

$$\frac{5}{7} \div \left( \frac{4}{5} \right) = \frac{5}{7} \times \frac{5}{4} = \frac{5 \times 5}{7 \times 4} = \frac{25}{28}$$

## Dividing decimals by 10 , 100 and 1000

• To divide by 10 , move the decimal point 1 place to the left.

For Example :  $2573.9 \div 10 = 257.39$

• To divide by 100 , move the decimal point 2 places to the left.

For Example :  $73.9 \div 100 = 0.739$





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- To divide by **1000**, move the decimal point **3 places** to the left.

For Example:  $2573.9 \div 1000 = 2.5739$

**Dividing a whole number by a 3-digit number without having a remainder**

For Example:

- To divide  $19912 \div 152$ , do as follows:

When dividing by a 3-digit number, start with the first three digits to the left.

- 1 Divide **199** by **152**, the result is **1** and the remainder is **47** because:  
 $1 \times 152 = 152$  &  $199 - 152 = 47$

$$\begin{array}{r} 1 \\ 152 \overline{) 19912} \\ \underline{- 152} \phantom{00} \\ 47 \phantom{00} \end{array}$$

- 2 Drop 1, then divide **471** by **152**, the result is **3** and the remainder is **15** because:  
 $3 \times 152 = 456$   
&  $471 - 456 = 15$

$$\begin{array}{r} 13 \\ 152 \overline{) 19912} \\ \underline{- 152} \phantom{00} \\ 471 \phantom{00} \\ \underline{- 456} \phantom{00} \\ 15 \phantom{00} \end{array}$$

- 3 Drop 2, then divide **152** by **152**, the result is **1** and the remainder is **0**

$$\begin{array}{r} 131 \\ 152 \overline{) 19912} \\ \underline{- 152} \phantom{00} \\ 471 \phantom{00} \\ \underline{- 456} \phantom{00} \\ 152 \phantom{00} \\ \underline{- 152} \phantom{00} \\ 0 \end{array}$$

Then,  $19912 \div 152 = 131$

### Draft

You can use this draft to estimate the result of dividing by 152:

$$152 \times 0 = 0$$

$$152 \times 1 = 152$$

$$152 \times 2 = 304$$

$$152 \times 3 = 456$$

$$152 \times 4 = 608$$

199

471

### Note:

- 199 lies between 152 and 304

So, we take 1 when dividing 199 by 152

- 471 lies between 456 and 608

So, we take 3 when dividing 471 by 152







### Dividing by a decimal

- To divide by a decimal, you can use the same way of dividing whole numbers, by writing the divisor as a whole number.

Do this by multiplying the divisor and the dividend by 10, 100, 1000, ... ect.

according to the number of places of the decimal part of the divisor.

For Example :

$$2.4 \div 1.2 = \frac{2.4 \times 10}{1.2 \times 10} = \frac{24}{12} = 2$$

Another solution :

$$2.4 \div 1.2 = 2.4 \div 1.2 = 2$$

Third solution :

$$2.4 \div 1.2 = \frac{24}{10} \div \frac{12}{10} = \frac{24}{10} \times \frac{10}{12} = 2$$

### Infinite division

Sometimes, when we divide the numerator of a fraction by the denominator, we never reach a final digit.

For Example :

- To divide  $13 \div 123$  approximating the quotient to the nearest hundredth, do as follows :

$$\begin{array}{r} 0.105 \\ 123 \overline{) 13.0} \\ \underline{- 12.3} \phantom{00} \\ 0.700 \\ \underline{- 0.615} \phantom{00} \\ 0.085 \end{array}$$

Then,  $13 \div 123 \approx 0.11$   
to the nearest hundredth.





## Summary of Unit Two

## Mathematical expression of a set

## First Listing method

For Example :

- The set of digits of the number 2010 =  $\{2, 0, 1\}$

## Second The description method

Example :

If  $X = \{r, a, t\}$ , then we can express the set X as one of the following :

- X = the set of letters of the word "rat".
- X = the set of letters of the word "art".

## Types of sets

## 1 Finite set

A finite set is a set has a limited number of elements.  
i.e. The number of its elements can be listed.

For Example :

- The set of names of the months of a year is finite because the number of its elements is 12

## 2 Infinite set

An infinite set is a set has an unlimited number of elements.  
i.e. The number of its elements cannot be listed.

For Example :

- The set of even numbers =  $\{0, 2, 4, 6, 8, \dots\}$



### 3 The null (empty) set

The null set is the set that has **no elements**.

It is denoted by symbol  $\{ \}$  or  $\emptyset$  which is read as "phi"

For Example :

- The set of your class pupils who visited the moon.

### Equal sets

Two sets are **equal** if they have the same elements exactly.

For Example :

- If  $A = \{a, b, c\}$  and  $B = \{a, c, b\}$ , then  $A = B$

### Important symbols

$\in$  denotes  
 "the **belonging** of  
 an element to a set".  
 For Example :  
 $2 \in \{5, 2, 3\}$

$\in$

The symbols

$\notin$

$\notin$  denotes  
 "the **not belonging** of  
 an element to a set".  
 For Example :  
 $6 \notin \{16, 5, 2\}$

$\subset$  denotes  
 "the **subset** of  
 a set to another set".  
 For Example :  
 $\{5, 2\} \subset \{2, 3, 5\}$

$\subset$

The symbols

$\not\subset$

$\not\subset$  denotes  
 "the **not subset** of  
 a set to another set".  
 For Example :  
 $\{5, 0\} \not\subset \{5, 8, 7\}$

### Remarks

- The empty set  $\emptyset$  is a subset of any set  
 For Example :  $\emptyset \subset \{a, b, c\}$ ,  $\emptyset \subset \{1, 2, 3, \dots\}$ ,  $\emptyset \subset \{0\}$
- Any set is a subset of itself " $X \subset X$ "  
 For Example :  $\{1, 2\} \subset \{2, 1\}$



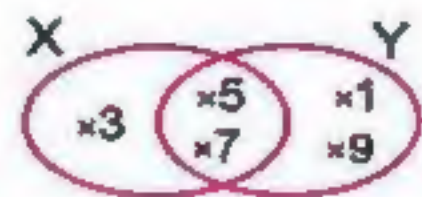
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### Intersection of two sets

The intersection of the two sets is the set of all common elements in the two sets. It is denoted by the symbol " $\cap$ "

For Example :

- If  $X = \{3, 5, 7\}$ ,  $Y = \{1, 5, 7, 9\}$ ,  
 , then  $X \cap Y = \{5, 7\}$



### Union of two sets

The union of the two sets  $X$  and  $Y$  is that set which contains all the elements belonging to  $X$  or  $Y$ . It is denoted by the symbol " $\cup$ "

For Example :

- If  $X = \{2, 4, 5\}$  and  $Y = \{1, 4, 8\}$   
 , then  $X \cup Y = \{2, 4, 5, 1, 8\}$



### The universal set

The universal set is the mother set which includes all the given subsets. It is denoted by " $U$ "

For Example :

- If  $X = \{2, 5, 7\}$  and  $Y = \{3, 4, 5, 6\}$   
 , then the universal set  $U$  = the set of whole numbers less than 8  
 "You can find other universal sets"



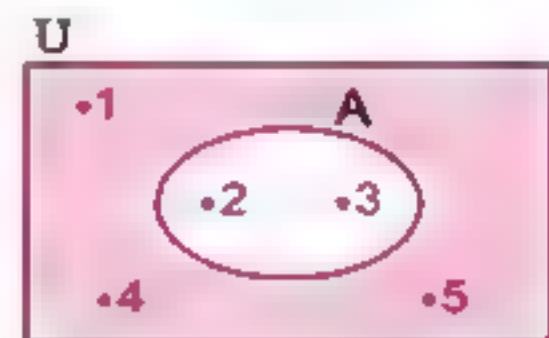
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### The complement of a set

If  $U$  is the universal set and  $A$  is a subset of  $U$ , then the complement of  $A$  is the set of elements in  $U$  but not in  $A$

For Example :

- If  $U = \{1, 2, 3, 4, 5\}$  and  $A = \{2, 3\}$ ,  
then  $\bar{A} = \{1, 4, 5\}$



### Difference between two sets

#### X difference Y

is the set of elements that belongs to  $X$  and does not belong to  $Y$ , it is written as " $X - Y$ "

#### Y difference X

is the set of elements that belongs to  $Y$  and does not belong to  $X$ , it is written as " $Y - X$ "

For Example :

- If  $X = \{1, 2, 4, 5, 7\}$   
and  $Y = \{0, 1, 3, 4, 6, 7\}$ , then :
- $X - Y = \{2, 5\}$
- $Y - X = \{0, 3, 6\}$



Notice

$$X - Y \neq Y - X$$







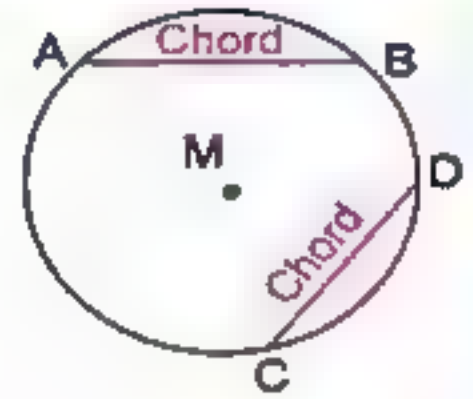


### A chord in a circle

A **chord** in a circle is a line segment that connects between any two points on the circle.

**For Example :**

Each of  $\overline{AB}$  and  $\overline{CD}$  is a **chord** in the circle M

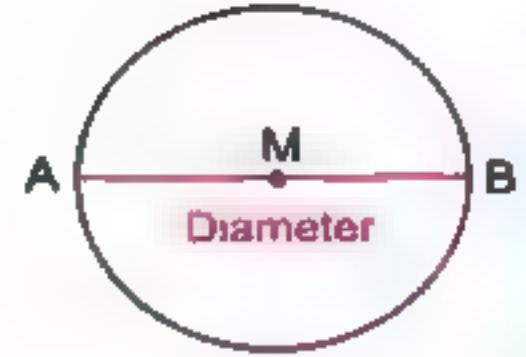


### The diameter of a circle

The **diameter** of the circle is a chord that crosses the centre of the circle.

**For Example :**

$\overline{AB}$  is a **diameter** in the circle M



### Notice

- The diameter of the circle is the longest chord.
- The length of any diameter in a circle is equal to twice the length of its radius.  
i.e. The length of the diameter =  $2 \times$  the length of the radius.

$$d = 2 \times r$$

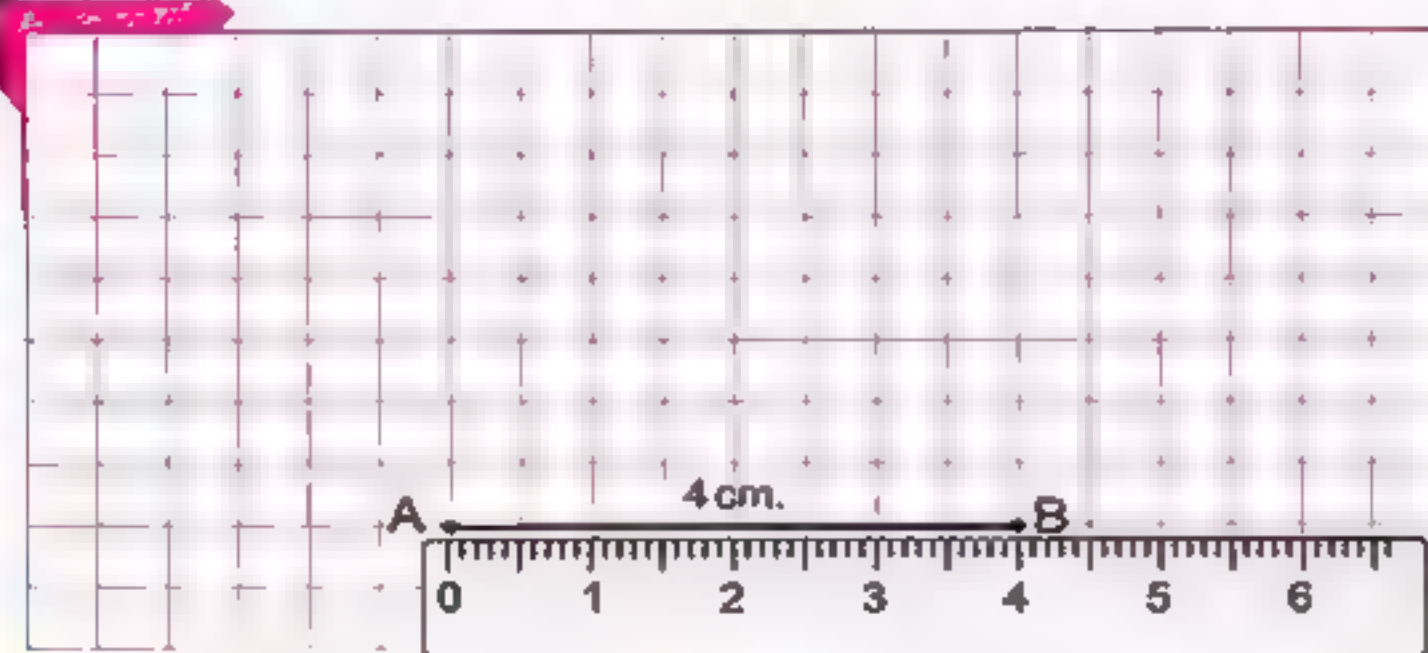
### Drawing a triangle given the lengths of its three sides

#### Example

Draw the triangle ABC in which  $AB = 4 \text{ cm}$ ,  $BC = 3 \text{ cm}$ , and  $CA = 2 \text{ cm}$ .

#### Solution

##### STEP 1

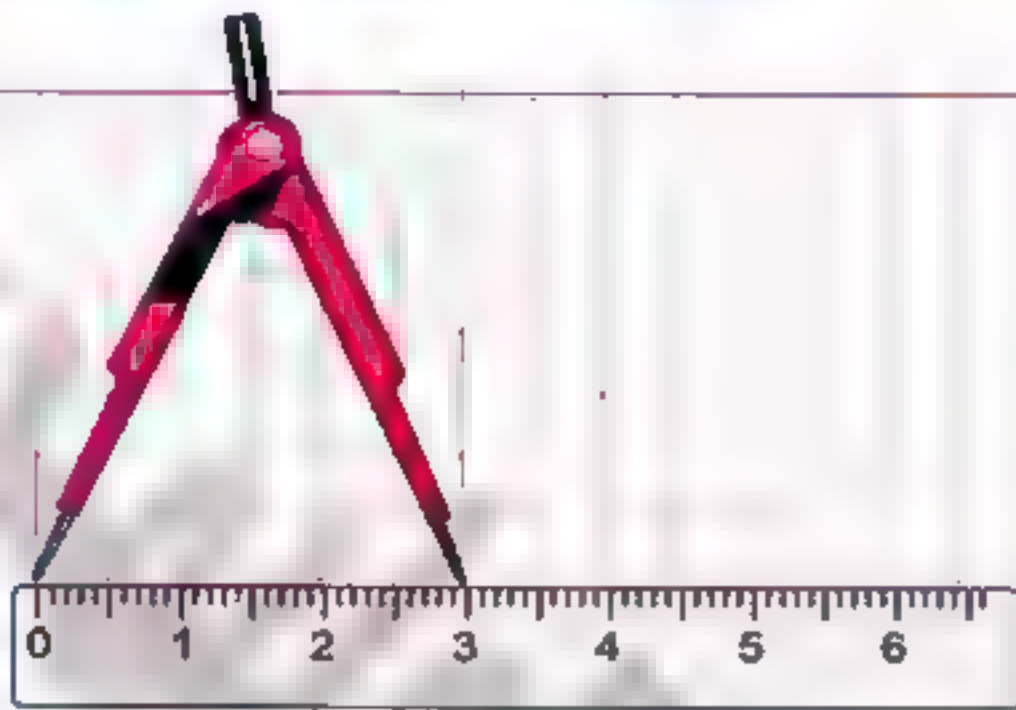


Use the ruler to draw the line segment  $\overline{AB}$  of length 4 cm.



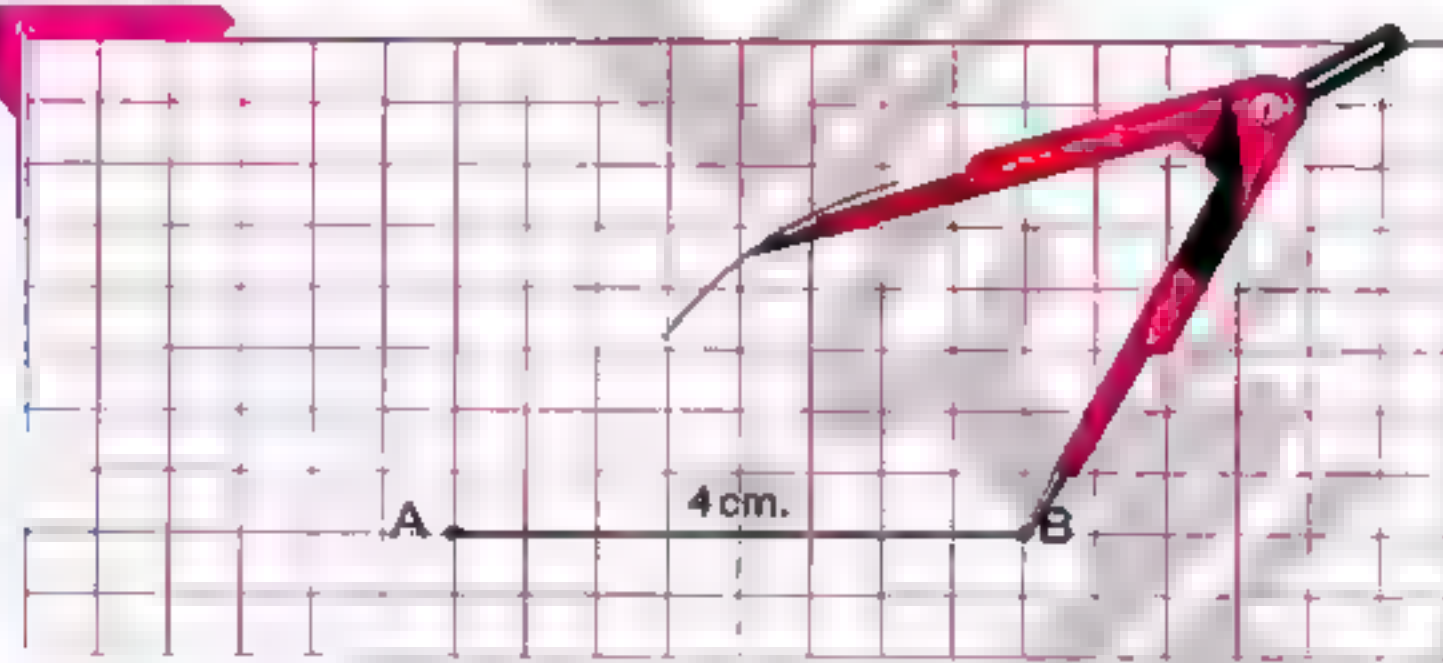
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## STEP 2



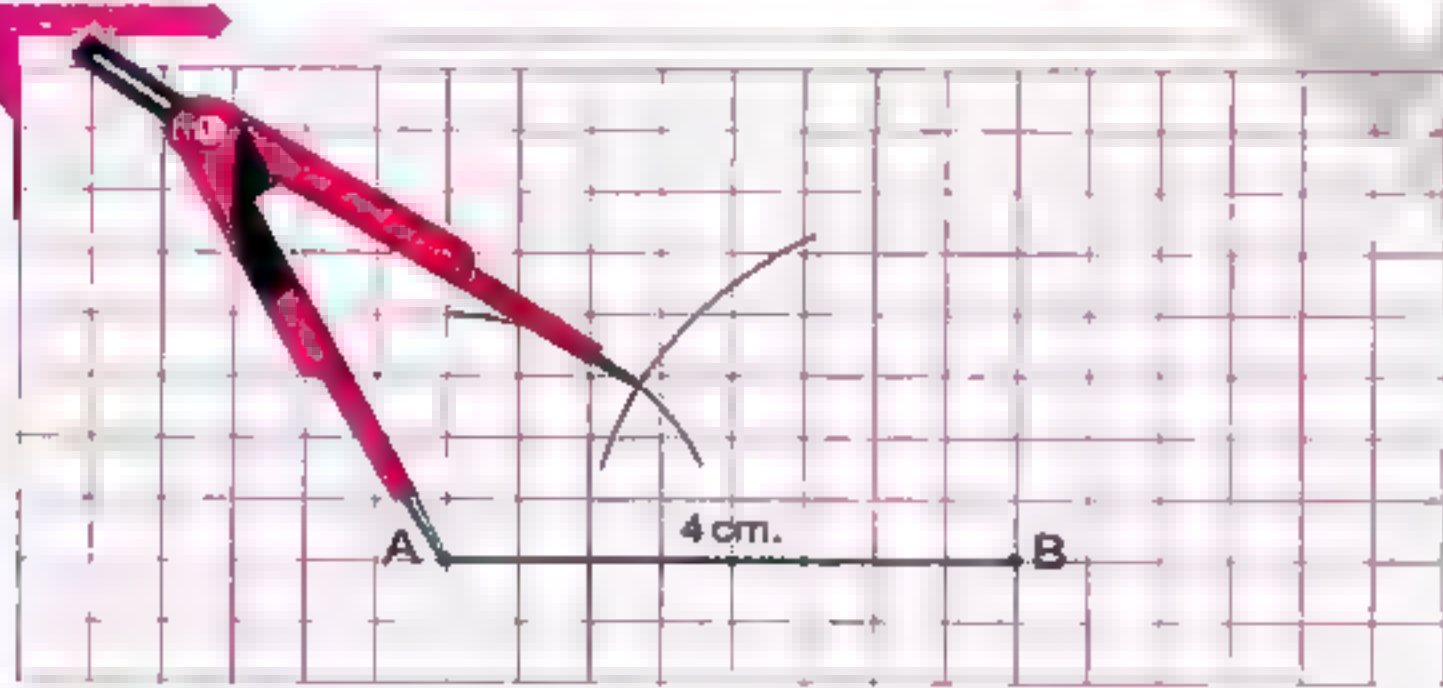
Open the compasses on the ruler such that the distance between the sharp point and the pencil equals 3 cm. to draw  $\overline{BC}$

## STEP 3



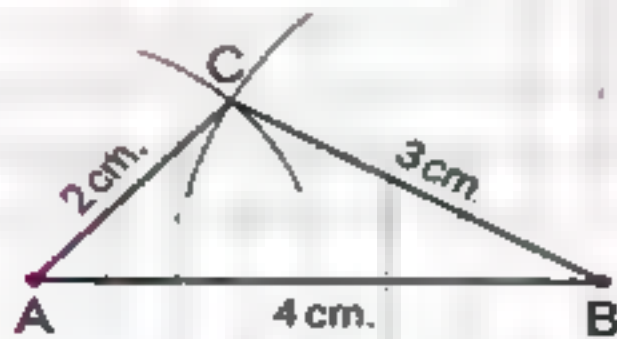
Place the sharp point at B and turn the compasses to draw an arc as in figure.

## STEP 4



Similarly open the compasses to a distance equal to 2 cm. to draw  $\overline{CA}$  and place the sharp point at A, then turn the compasses to draw another arc that intersects the first arc at the point C

## STEP 5



Draw each of  $\overline{BC}$  and  $\overline{CA}$ , then the triangle ABC is the required triangle.



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### Drawing a line segment perpendicular to a straight line from a point outside it

For Example :

To draw a perpendicular from C to  $\overleftrightarrow{AB}$   
follow the following steps :

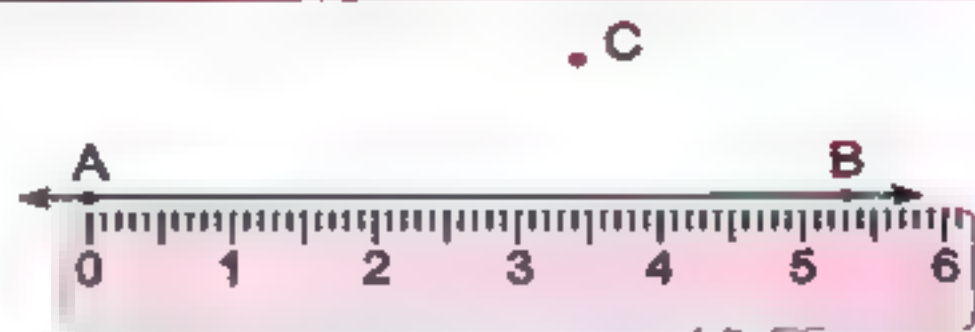
#### STEP 1

Put the edge of the ruler on  $\overleftrightarrow{AB}$



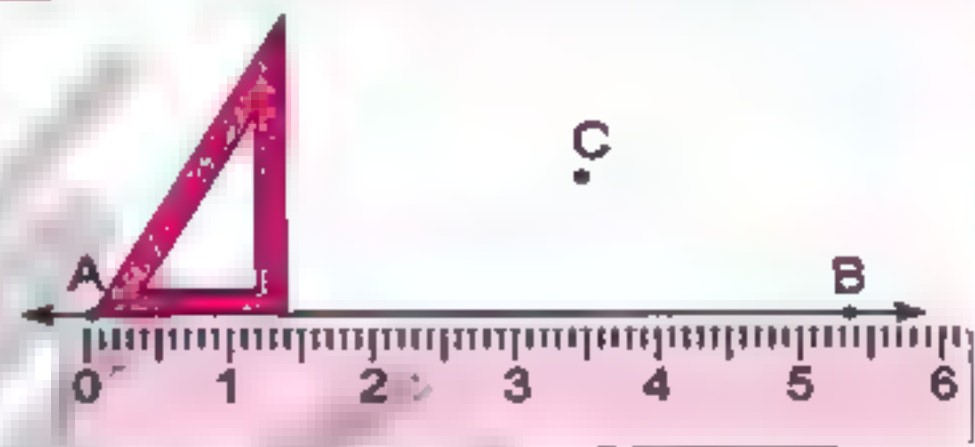
#### STEP 2

Put the edge of one side of the right angle of the set square on the edge of the ruler.



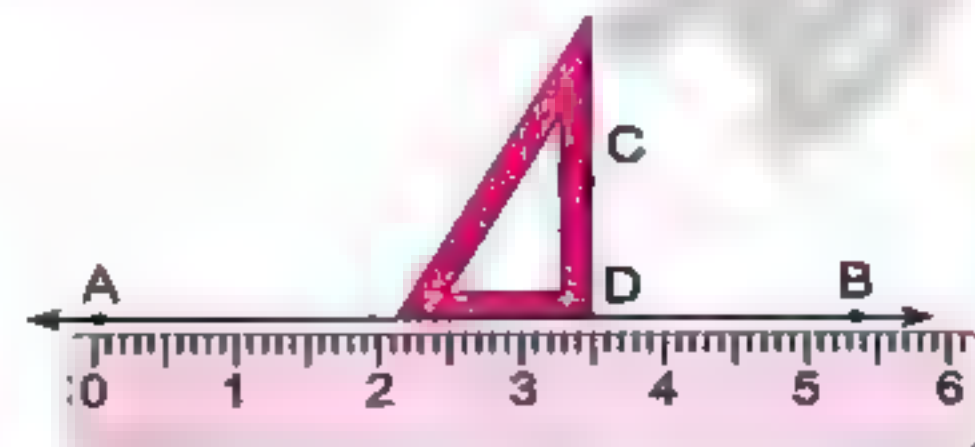
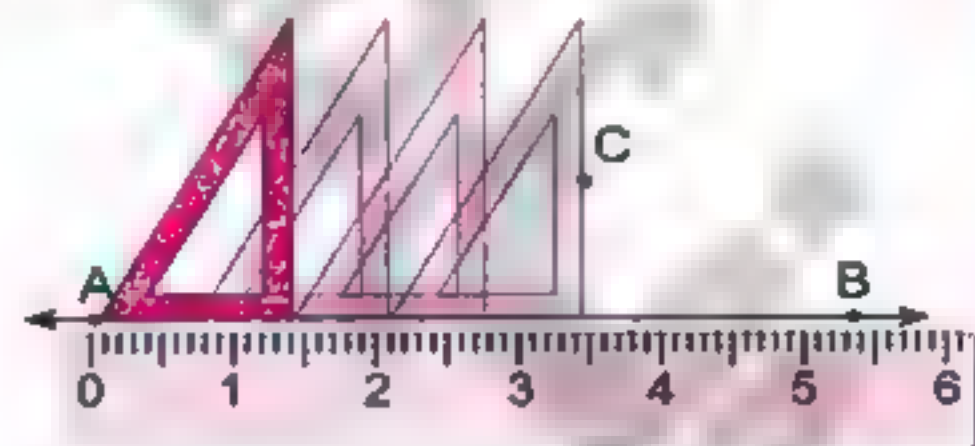
#### STEP 3

Move the set square in the direction of the arrow as in the opposite figure to slide along the edge of the ruler till it reaches the point C



#### STEP 4

From C draw a line segment intersects  $\overleftrightarrow{AB}$  at D, then  $\overline{CD} \perp \overleftrightarrow{AB}$





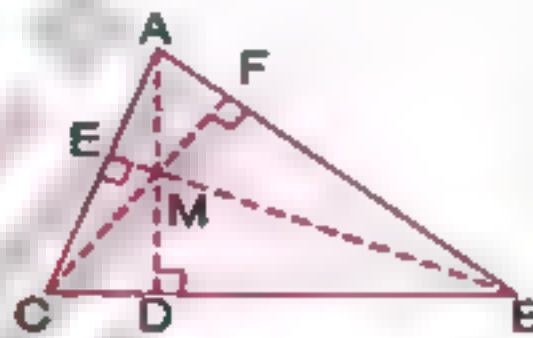
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### The altitudes of a triangle

An altitude of a triangle is a line segment drawn from a vertex of the triangle perpendicular to its corresponding base, or to its corresponding base extended.

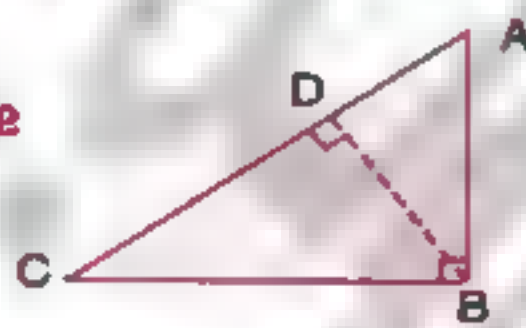
### Remarks

- ▶ The altitudes of an acute-angled triangle



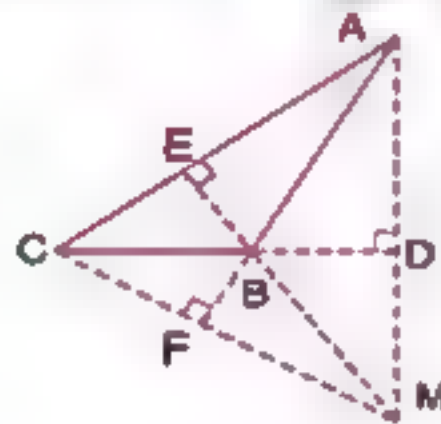
$\overline{AD}$ ,  $\overline{BE}$  and  $\overline{CF}$  are the altitudes of  $\triangle ABC$ . They intersect at one point (M) inside the triangle.

- ▶ The altitudes of a right-angled triangle



$\overline{AB}$ ,  $\overline{BC}$  and  $\overline{AC}$  are the altitudes of  $\triangle ABC$ . They intersect at one point (B) which is the vertex of the right angle.

- ▶ The altitudes of an obtuse-angled triangle



$\overline{AD}$ ,  $\overline{BE}$  and  $\overline{CF}$  are the altitudes of  $\triangle ABC$ .  $\overline{AD}$  and  $\overline{BE}$  lie outside  $\triangle ABC$  and the three altitudes intersect at one point (M) outside the triangle.



## Summary of Unit Four

## Experimental probability

Experimental probability =  $\frac{\text{Number of trials in which the outcome occurs}}{\text{Total number of trials}}$

## Sample space

The sample space of an experiment is the set of all possible outcomes of this experiment. It is usually denoted by (S)

For Example :

- Tossing a regular coin once , then  $S = \{\text{Head , Tail}\}$
- Rolling a regular die once and observing the apparent number on the upper face , then  $S = \{1 , 2 , 3 , 4 , 5 , 6\}$

## Event

In an experiment , an event is any subset of the sample space of this experiment.

## Theoretical probability

Theoretical probability is finding the probability of events that come from a sample space of outcomes having equal chance to occur.

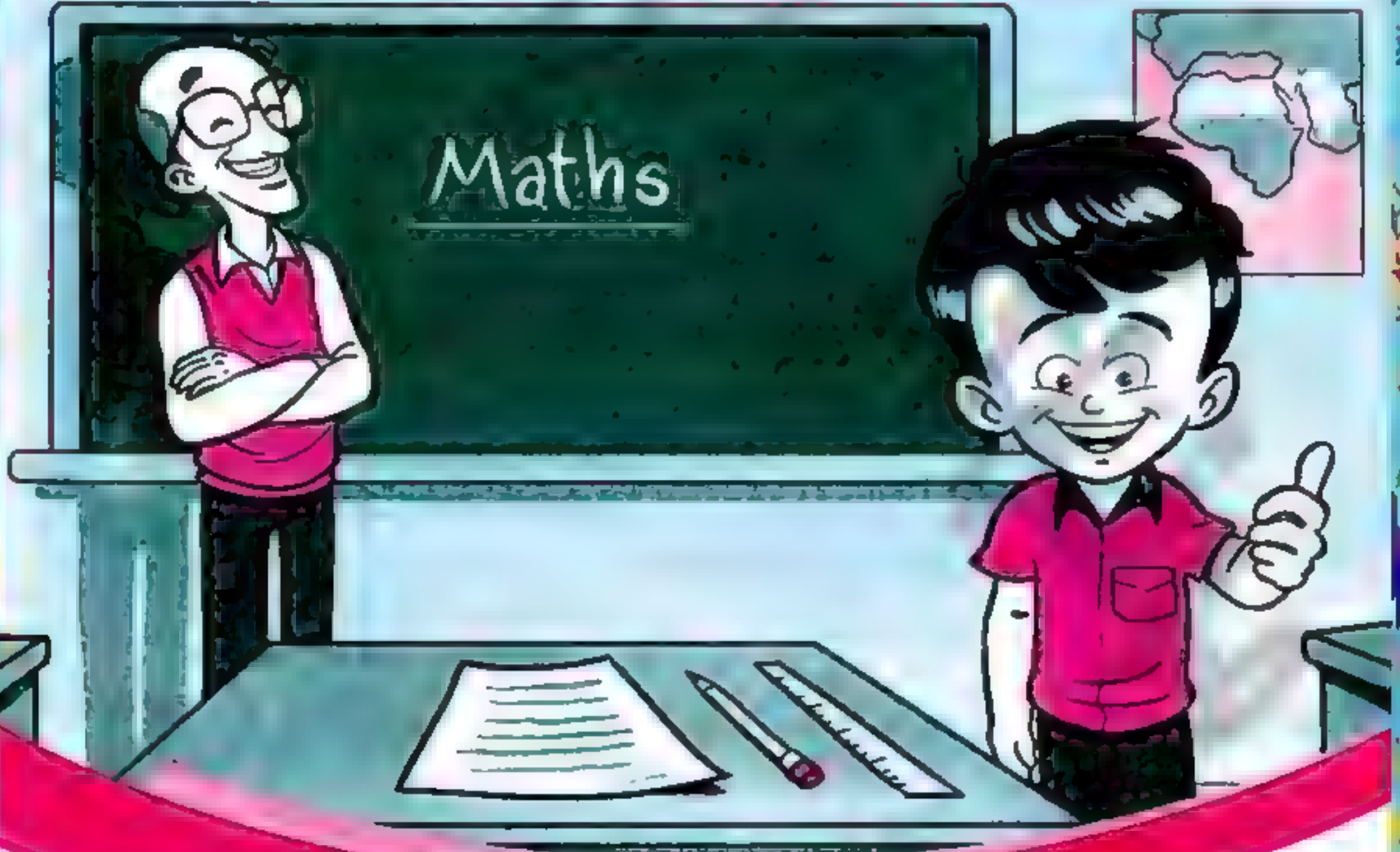
The probability of an event to be occurred =  $\frac{\text{Number of outcomes of the event}}{\text{Number of all possible outcomes}}$



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First

Worksheets on unit ① and unit ②



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Total mark  
20

## Sheet 1

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On lesson 1 unit 1

1 Complete each of the following :

- [a]  $0.7351 \approx \dots\dots\dots$  ( to the nearest hundredth )  
 [b]  $152.3017 \approx \dots\dots\dots$  ( to the nearest thousandth )  
 [c]  $\frac{2758}{1000} \approx \dots\dots\dots$  ( to the nearest hundredth )  
 [d]  $3 \frac{18}{500} \approx \dots\dots\dots$  ( to the nearest hundredth )  
 [e]  $0.9998 \approx \dots\dots\dots$  ( to the nearest thousandth )

5

2 Choose the correct answer :

- [a]  $5.994 \approx 5.99$  to the nearest  $\dots\dots\dots$   
 ( unit or tenth or hundredth or thousandth )  
 [b]  $12.3794 \approx 12.38$  to the nearest  $\dots\dots\dots$   
 ( unit or tenth or hundredth or thousandth )  
 [c]  $4 \frac{1}{8} \approx \dots\dots\dots$  to the nearest hundredth.  
 ( 4.125 or 4.12 or 4.13 or 4.1 )  
 [d]  $3\ 725\text{ m.} \approx \dots\dots\dots$  to the nearest kilometre.  
 ( 3 or 4 or 37 or 3 730 )  
 [e]  $47\ 997\text{ mL.} \approx \dots\dots\dots$  to the nearest litre.  
 ( 47.9 or 47 or 48.99 or 48 )

5

3 Complete each of the following :

- [a]  $14.372 + 15.449 = \dots\dots\dots \approx \dots\dots\dots$  (to the nearest hundredth)  
 [b]  $17.48 - 9.3746 = \dots\dots\dots \approx \dots\dots\dots$  (to the nearest thousandth)  
 [c]  $2 \frac{3}{8} - \frac{4}{200} = \dots\dots\dots \approx \dots\dots\dots$  (to the nearest hundredth)  
 [d] The difference between  $\frac{31}{500}$  and  $0.421 = \dots\dots\dots \approx \dots\dots\dots$   
 (to the nearest hundredth)  
 [e]  $13\ 259\text{ gm.} \approx \dots\dots\dots\text{ kg.}$  (to the nearest kilogram)

5

4 Write the greatest decimal fraction which consists of 3 , 5 , 4 and 2 , then approximate it to the nearest hundredth and to the nearest thousandth.

2

5 Two pieces of cloth are of length 85.91 m. and 82.3972 m. Find the sum of the lengths of the two pieces approximating the result to the nearest thousandth.

3

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## Sheet 2

From lesson 1 unit 1  
to lesson 2 unit 1



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1 Put the suitable relation ( $>$ ), ( $<$ ) or ( $=$ ):

[a]  $\frac{7}{11}$    $\frac{5}{11}$

[b]  $1\frac{9}{10}$    $2\frac{1}{10}$

[c] 1   $\frac{3}{5}$

[d]  $\frac{3}{4}$    $\frac{5}{6}$

[e] 3.2   $3\frac{1}{2}$

[f]  $\frac{61}{8}$    $7\frac{1}{2}$

2 [a] Arrange each of the following in an ascending order :

(1)  $\frac{1}{2}$ ,  $\frac{2}{5}$ ,  $\frac{7}{10}$  and  $\frac{1}{4}$

(2) 2.4,  $2\frac{1}{2}$ ,  $3\frac{4}{5}$  and  $1\frac{1}{2}$

[b] Arrange each of the following in a descending order :

(1)  $\frac{1}{2}$ ,  $\frac{7}{8}$ , 1 and  $\frac{2}{5}$

(2)  $\frac{1}{4}$ , 0.8, 0.4,  $\frac{1}{2}$  and  $\frac{3}{4}$

3 Complete each of the following :

[a]  $37.258 \approx \dots\dots\dots$

(to the nearest hundredth)

[b] If  $\frac{3}{8} = \frac{a}{24}$ , then  $a = \dots\dots\dots$

[c]  $42.7935 \approx 42.794$  to the nearest  $\dots\dots\dots$

[d] If  $\frac{16}{36} = \frac{4}{b}$ , then  $b = \dots\dots\dots$

[e]  $\frac{3}{500} \approx \dots\dots\dots$

(to the nearest hundredth)

4 Find the values of  $x$  that satisfies the relation  $\frac{3}{8} < \frac{x}{8} < \frac{9}{8}$   
such that  $x$  is a whole number.

5 Write the smallest decimal fraction which consists of 3, 9, 2 and 4,  
then approximate it to the nearest thousandth.





## Sheet

3

From lesson 1 unit 1  
to lesson 3 unit 1تفوقك في أي مذكرة عليها العلامة دي  
www.facebook.com/groups/zakroolypr5

5

1 Complete each of the following :

[a]  $32.563 \times 100 = \dots\dots\dots$

[b]  $25.0825 \approx \dots\dots\dots$

(to the nearest thousandth)

[c]  $7.003 \text{ kg.} = \dots\dots\dots \text{ gm.}$

[d] If  $\frac{3}{7} = \frac{x}{21}$ , then  $x = \dots\dots\dots$

[e]  $4\frac{5}{8} \approx \dots\dots\dots$

(to the nearest hundredth)

5

2 Choose the correct answer :

[a]  $4.162 \times 100 \dots\dots\dots 41.62$

(&gt; or &lt; or =)

[b]  $32.531 \times 10 \dots\dots\dots 0.32531 \times 1\,000$

(&gt; or &lt; or =)

[c]  $572.4 \text{ cm.} \approx \dots\dots\dots \text{ m. "to the nearest metre"}$

(6 or 50 or 60 or 572)

[d]  $37.756 \approx 37.76$  to the nearest  $\dots\dots\dots$

(tenth or hundredth or thousandth or unit)

[e]  $7.04 \times \dots\dots\dots = 704$

(10 or 100 or 1 000 or 10 000)

5

3 Put (✓) for the correct statement and (x) for the incorrect one :

[a]  $5.47 \times 1\,000 = 547$

( )

[b] If  $\frac{3}{5} = \frac{a}{10}$ , then  $a = 6$

( )

[c]  $2.53 \times 100 = 25.3 \times 10$

( )

[d]  $3.7 < 3\frac{5}{8}$

( )

[e]  $2.5781 \approx 2.58$

(to the nearest 3 decimal places)

( )

2

4 If the price of a piece of sweet is 2.25 pounds.

What is the price of 10 pieces of the same kind ?

3

5 [a] Find the result of each of the following :

(1)  $(37.21 + 3.4) \times 10 = \dots\dots\dots$

(2)  $(7.742 \times 100) - 32.4 = \dots\dots\dots$

[b] Arrange the following numbers ascendingly :

$4\frac{1}{4}$ , 4.025, 4.375 and  $4\frac{1}{8}$





## Sheet

4



تفوقك في أي مذكرة عليها العلامة دي  
www.facebook.com/groups/zakroolypr5

Total mark  
20

From lesson 1 unit 1  
to lesson 4 unit 1

1 Find the product of each of the following :

[a]  $53 \times 0.7 = \dots\dots\dots$

[b]  $24 \times 0.06 = \dots\dots\dots$

[c]  $14 \times 0.003 = \dots\dots\dots$

[d]  $5.4 \times 3.2 = \dots\dots\dots$

[e]  $2.1 \times 0.34 = \dots\dots\dots$

2 Choose the correct answer :

[a]  $2.3 \times 0.004 = \dots\dots\dots$  ( 92 or 0.92 or 0.0092 or 0.092 )

[b]  $136.592 \approx 136.6$  to the nearest  $\dots\dots\dots$

( ten or tenth or hundredth or unit )

[c]  $\frac{3}{8} \dots\dots\dots 0.35$  ( > or < or = )

[d]  $47.325 \times 10 \dots\dots\dots 4.7325 \times 100$  ( < or = or > )

[e]  $426.305 \approx \dots\dots\dots$  (to the nearest hundredth)

( 400 or 426.30 or 426.31 or 426.305 )

3 Complete each of the following :

[a]  $35.61 \times 0.1 = \dots\dots\dots$

[b]  $12.5 + 7.632 = \dots\dots\dots \approx \dots\dots\dots$  (to the nearest  $\frac{1}{100}$  )

[c]  $5.37 \times 5 = \dots\dots\dots \approx \dots\dots\dots$  (to the nearest tenth)

[d]  $7.3 \text{ m.} = \dots\dots\dots \text{ dm.}$

[e]  $45.278 - 28.3451 = \dots\dots\dots \approx \dots\dots\dots$  (to the nearest 0.001)

4 Find the area of the rectangle , its dimensions are 2.4 cm.

and 4.5 cm. approximating the result to the nearest unit.

5 If the price of one metre of cloth is 7.75 pounds , find the price of

2.25 metres of this cloth approximated to the nearest pound.





## Sheet

5



تفوقك في أي مذكرة عليها العلامة دي  
www.facebook.com/groups/zakroolypr5

Total mark  
20

From lesson 1 unit 1  
to lesson 5 unit 1

1 Find the result of each of the following :

[a]  $\frac{1}{2} \times \frac{4}{5} = \dots\dots\dots$

[b]  $16 \times \frac{5}{8} = \dots\dots\dots$

[c]  $3\frac{2}{5} \times 4\frac{1}{2} = \dots\dots\dots$

[d]  $3.5 \times 0.5 = \dots\dots\dots$

[e]  $37.59 \times 100 = \dots\dots\dots$

2 Choose the correct answer :

[a] 38.623 litres = ..... mL.

( 386.23 or 3862.3 or 38 623 or 1 000 )

[b]  $\frac{3}{4} \times 1\frac{1}{2} = \dots\dots\dots$

(  $\frac{9}{8}$  or  $\frac{1}{2}$  or  $\frac{6}{10}$  or  $\frac{5}{4}$  )

[c]  $1\frac{3}{7} \dots\dots\dots 1\frac{4}{7}$

( > or < or = )

[d] 93.4987  $\approx$  ..... to the nearest thousandth.

( 93.40 or 93.50 or 93.499 or 93.5 )

[e] If  $\frac{6}{13} < \frac{x}{13} < \frac{8}{13}$ , then  $x = \dots\dots\dots$

( 6 or 7 or 8 or 13 )

3 Complete each of the following :

[a]  $1\frac{1}{5} \times 2\frac{1}{3} = \dots\dots\dots$

[b]  $3.52 \times 7.4 = \dots\dots\dots$

[c] 3.5 km. = ..... m.

[d]  $2\frac{3}{8} \approx \dots\dots\dots$  (to the nearest 2 decimal places)

[e]  $3\frac{1}{4} \times \frac{4}{13} = \dots\dots\dots$

4 [a] Arrange the following numbers in a descending order :

$\frac{1}{2}$ ,  $\frac{7}{8}$ , 1 and  $\frac{2}{5}$

[b] Put ( > ), ( < ) or ( = ) :

(1)  $2\frac{1}{4} \square \frac{7}{3}$

(2)  $5.73 \times 100 \square 57\ 300$

5 The price of a bar of chocolate is L.E.  $2\frac{3}{4}$

What is the cost of 15 bars of the same kind ?





## Sheet 6

From lesson 1 unit 1  
to lesson 6 unit 1



تفوقك في أي مذكرة عليها العلامة دي  
www.facebook.com/groups/zakroolyr5

20

1 Find the quotient of each of the following :

[a]  $\frac{3}{4} \div \frac{3}{8} = \dots\dots$

[b]  $\frac{2}{5} \div \frac{7}{10} = \dots\dots$

[c]  $8 \div \frac{4}{9} = \dots\dots$

[d]  $1\frac{3}{4} \div \frac{1}{2} = \dots\dots$

[e]  $6\frac{1}{4} \div 12\frac{1}{2} = \dots\dots$

5

2 Put ( > ) , ( < ) or ( = ) :

[a]  $\frac{3}{4}$  of an hour  40 minutes.

[b]  $\frac{4}{5}$    $\frac{2}{3}$

[c]  $7 \times \frac{1}{3}$    $2\frac{1}{3}$

[d]  $2\frac{1}{2} \div 4$    $\frac{7}{8}$

[e] 3.2 kg.  3 200 gm.

5

3 Complete the following :

[a]  $7.35 + 16.028 \approx \dots\dots$  (to the nearest  $\frac{1}{100}$  )

[b] 2.56 m. = ... cm.

[c]  $2.3 \times 1.1 = \dots\dots$

[d]  $\frac{2}{15} \times \frac{5}{6} = \dots\dots$

[e]  $\frac{2}{5} \div 3 = \dots\dots$

5

4 The perimeter of a square is  $\frac{8}{11}$  m.

Find the side length of the square.

3

5 Ahmed bought a piece of cloth 4.2 metres long , if the price of one metre is 48.7 pounds. Calculate the price of the cloth approximating the result to the nearest pound.

2





Total mark

20

5

5

4

3

3

## Sheet

7

From lesson 1 unit 1  
to lesson 7 unit 1تفوقك في أي مذكرة عليها العلامة دي  
www.facebook.com/groups/zakroolypr5

1 Complete the following :

[a]  $8.4 \div 10 = \dots\dots\dots$

[b]  $3.6 \div 100 = \dots\dots\dots$

[c]  $2456.8 \div 1\,000 = \dots\dots\dots$

[d]  $372.5\text{ gm.} = \dots\dots\dots\text{ kg.}$

[e]  $5\,629\text{ m.} \approx \dots\dots\dots\text{ km. (to the nearest km.)}$

2 Choose the correct answer :

[a]  $4.617 \times \dots\dots\dots = 4\,617$  ( 10 or 100 or 1 000 or 0.1 )

[b]  $\frac{5}{9} \dots\dots\dots \frac{7}{11}$  ( > or < or = )

[c]  $9.612 \times 100 \dots\dots\dots 9\,612 \div 100$  ( > or < or = )

[d]  $\frac{2}{3} \times \frac{9}{8} = \dots\dots\dots$  (  $\frac{3}{4}$  or  $\frac{4}{3}$  or 3 or  $\frac{1}{4}$  )

[e]  $1\frac{1}{2} \div \frac{1}{4} = \dots\dots\dots$  ( 2 or 6 or  $\frac{3}{8}$  or 12 )

3 Arrange the following numbers ascendingly :

$\frac{11}{12}, \frac{5}{12}, \frac{3}{4}, \frac{2}{3}$  and  $\frac{5}{6}$

4 A road is of length 64 983 m. Find its length in kilometres approximating the result to the nearest hundredth.

5 If L.E. 565.5 is distributed among 10 poor persons.  
How much money did each one take ?



## Sheet 8



تفوقك في أي مذكرة عليها العلامة دي  
www.facebook.com/groups/zakroolypr5

Total mark  
20

From lesson 1 unit 1  
to lesson 8 unit 1

1 Find the result :

[a]  $3\ 968 + 124 = \dots\dots\dots$

[b]  $5\ 160 + 215 = \dots\dots\dots$

[c]  $19\ 968 + 256 = \dots\dots\dots$

3

2 Choose the correct answer :

[a]  $6\ 020 + 215 = \dots\dots\dots$  ( 34 or 32 or 28 or 26 )

[b]  $0.342 \times 1.2 \dots\dots\dots 3.42 \times 0.12$  ( < or = or > )

[c]  $1\frac{3}{7} \dots\dots\dots 1\frac{5}{11}$  ( < or = or > )

[d]  $9\frac{1}{3} \times \frac{6}{7} = \dots\dots\dots$  ( 8 or  $\frac{1}{8}$  or  $\frac{8}{21}$  or  $2\frac{2}{3}$  )

[e]  $8\ 120 + 145 = \dots\dots\dots$  ( 58 or 56 or 54 or 52 )

5

3 Complete the following :

[a] The number  $14.669 \approx \dots\dots\dots$  (to the nearest hundredth)

[b]  $3.2\text{ kg.} = \dots\dots\dots\text{ gm.}$

[c]  $1\ 845 + 123 = \dots\dots\dots$

[d]  $0.97 \times 0.05 = \dots\dots\dots$

[e]  $75.351 + 100 = \dots\dots\dots$

5

4 A truck can carry 162 boxes. Find the number of trips needed to transport 19 440 boxes.

3

5 [a] Ahmed bought 12 cans of juice , the price of each one is 1.85 pounds.  
How much money did Ahmed pay ?

4

[b] Arrange the following in an ascending order :

$0.6$  ,  $\frac{5}{8}$  ,  $\frac{2}{5}$  and  $0.5$





## Sheet

9

From lesson 1 unit 1  
to lesson 9 unit 1



تفوقك في أي مذكرة عليها العلامة دي  
www.facebook.com/groups/zakroolypr5

Total mark  
20

1 Complete the following :

5

[a]  $16.4 + 0.4 = \dots\dots\dots$

[b]  $73.92 + 2.31 = \dots\dots\dots$

[c]  $17.5 + 1.25 = \dots\dots\dots$

[d]  $74.632 \times 100 = \dots\dots\dots$

[e]  $56.431 + 2.115 = \dots\dots\dots$  (to the nearest hundredth)

2 Choose the correct answer :

5

[a]  $8.46 \text{ dm.} = \dots\dots\dots \text{ cm.}$  ( 846 or 0.846 or 84.6 or 8 460 )

[b]  $172 \times 0.003 \dots\dots\dots 0.172 \times 0.3$  ( < or = or > )

[c]  $2\frac{1}{3} \dots\dots\dots \frac{7}{3}$  ( < or = or > )

[d]  $18.2 + 1.3 = \dots\dots\dots$  ( 13 or 14 or 15 or 16 )

[e]  $54.5 + 0.5 = \dots\dots\dots$  ( 1.9 or 1.09 or 19 or 109 )

3 The length of a roll of cloth is 53.55 metres. It was divided into equal parts where the length of each part is 3.15 metres.  
Find the number of these parts.

3

4 Find the number which if multiplied by 0.52  
the result will be 1.248

3

5 Find the area of the rectangle whose length is 13.25 cm. and its width  
is 6.14 cm. , then approximate the result to the nearest hundredth.

4



## Sheet

10

From lesson 1 unit 1  
to lesson 10 unit 1تفوقك في أي مذكرة عليها العلامة دي  
www.facebook.com/groups/zakroolypr5Total mark  
20

1 Find the result :

[a]  $17 + 6$

(approximated to the nearest tenth)

[b]  $23 + 7$

(approximated to the nearest  $\frac{1}{100}$ )

[c]  $12.7 + 3$

(approximated to the nearest hundredth)

[d]  $12.34 + 0.9$

(approximated to the nearest  $\frac{1}{10}$ )

4

2 Choose the correct answer :

[a]  $\frac{1}{25} \times 50 \times 0.25 = \dots\dots\dots$

(4 or  $\frac{1}{4}$  or  $\frac{1}{2}$  or 2)

[b]  $6.28 + 0.4 = \dots\dots\dots$

(15.7 or 157 or 1.57 or 0.157)

[c]  $2\frac{1}{4} \times 2\frac{2}{3} = \dots\dots\dots$

(6 or 3 or  $\frac{2}{3}$  or  $2\frac{1}{4}$ )

[d]  $7.4 \dots\dots\dots 7\frac{5}{8}$

(&gt; or &lt; or =)

[e]  $7.8 + 0.6 = \dots\dots\dots$

(10 or 11 or 13 or 14)

5

3 Complete the following :

[a] 39 days  $\approx$   $\dots\dots\dots$  weeks.

(to the nearest week)

[b]  $\frac{2}{11} \approx \dots\dots\dots$

(to the nearest tenth)

[c]  $2\frac{1}{3} + 1\frac{2}{7} = \dots\dots\dots$

[d]  $25.2 + 0.3 = \dots\dots\dots$

[e]  $45.337 \times 10 = \dots\dots\dots$

5

4 Arrange the following ascendingly :

$3\frac{1}{2}, 4\frac{1}{4}, 3\frac{3}{4}, 3\frac{1}{8}$  and  $3\frac{2}{5}$

3

5 A family consumes 6.5 kg. of meat monthly where the cost of 1 kg. of meat is L.E. 38.5 Find what the family pays. (Approximate to the nearest pound)

3





## Sheet 11

From lesson 1 unit 1  
to lesson 1 unit 2



تفوقك في أي مذكرة عليها العلامة دي  
www.facebook.com/groups/zakrooly5

Total mark  
20

1 State which of the following is a set and which is not a set :

5

- [a] The colours of the Egyptian flag.
- [b] The letters in the word "Egypt".
- [c] Beautiful cities in Egypt.
- [d] Intelligent pupils in your class.
- [e] Days of the week.

2 Write the elements of the following sets :

5

- [a] The set of digits of the number 74 581
- [b] The set of letters of the word "student".
- [c] The whole numbers between 5 and 10
- [d] The even numbers less than 10
- [e] The factors of 6

3 Complete each of the following :

5

- [a]  $12\frac{1}{2} \times \frac{4}{5} = \dots\dots\dots$
- [b]  $45.334 \times 100 = \dots\dots\dots$
- [c]  $25.25 + 0.25 = \dots\dots\dots$
- [d]  $72.358 \approx \dots\dots\dots$  (to the nearest hundredth)
- [e]  $7.2 \times 5.2 = \dots\dots\dots$

4 A building consists of 7 floors. If the height of each floor is 3.05 metres ,  
find the height of the building.

2

5 Arrange the following in a descending order :

3

$$\frac{1}{4} , \frac{4}{5} , \frac{1}{2} , 0.4 \text{ and } \frac{3}{4}$$





## Sheet 12



تفوقك في أي مذكرة عليها العلامة دي  
www.facebook.com/groups/zakroolypr5

Total mark  
20

From lesson 1 unit 1  
to lesson 2 unit 2

5

1 Express each of the following sets by listing method :

- [a] A = the set of days of the week  
[b] B = the set of digits of the number 32323  
[c] C = the set of letters of the word "door"  
[d] D = the set of prime numbers less than 10  
[e] E = the set of even numbers between 7 and 17

5

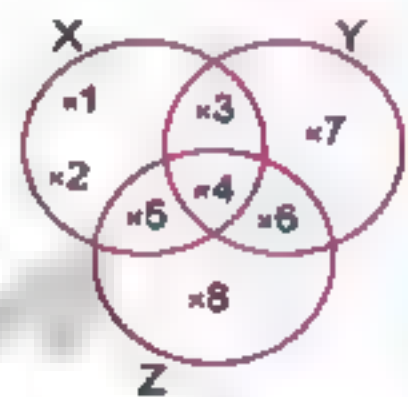
2 Express each of the following sets by description method :

- [a] A = { Port Sald , Ismailia , Suez }  
[b] B = { 1 , 3 , 5 } [c] C = { 11 , 13 , 17 }  
[d] D = { 9 , 10 , 11 , 12 } [e] E = { o , a , g , l }

5

3 Using the Venn diagram below , list the elements of each of the following :

- [a] X = .....  
[b] Y = .....  
[c] Z = .....  
[d] The set of the elements found in X and Y = .....  
[e] The set of the elements found in X , Y and Z = .....



3

4 Complete each of the following :

- [a] 43 days  $\approx$  ..... weeks (to the nearest week)  
[b] 2.576 m. = ..... cm.  
[c] If  $\frac{1}{3} = \frac{a}{15}$  , then a = .....  
[d]  $1.23 \times 0.6 = \dots \approx \dots$  (to the nearest hundredth)  
[e]  $2\frac{1}{3} + \frac{5}{6} = \dots$

2

5 If the price a piece of sweet is 4.35 pounds , what is the price of 35 pieces of the sweet ?





## Sheet

13

From lesson 1 unit 1  
to lesson 3 unit 2



تفوقك في أي مذكرة عليها العلامة دي  
www.facebook.com/groups/zakroolypr5

Total mark  
20

- 1 If  $A = \{2, 5, 6, 7\}$  and  $B = \{0, 1, 5, 6\}$ ,  
put the suitable sign of ( $\in$  or  $\notin$ ):

- [a] 6 ..... A , 6 ..... B  
[b] 2 ..... A , 2 ..... B  
[c] 1 ..... A , 1 ..... B  
[d] 5 ..... A , 5 ..... B  
[e] 65 ..... A , 65 ..... B

5

- 2 State if each set is finite , infinite or empty :

- [a] The set of whole numbers lying between 3 and 4 (.....)  
[b] The set of pupils in your school. (.....)  
[c] The set of even numbers. (.....)  
[d] The set of prime numbers between 1 and 3 (.....)  
[e] The set of dinosaurs in the zoo. (.....)

5

- 3 Choose the correct answer :

- [a] The smallest fraction in the following is .....  
(  $\frac{1}{3}$  or  $\frac{5}{8}$  or  $\frac{2}{9}$  or  $\frac{2}{5}$  )  
[b]  $\frac{1}{2}$  .....  $\frac{1}{3}$  ( > or = or < )  
[c] The quotient of dividing  $1.92 \div 0.6 =$  .....  
( 3.5 or 3.1 or 3.2 or 3 )  
[d]  $28.9316 \approx$  ..... (to the nearest thousandth)  
( 29 or 28.93 or 28.931 or 28.932 )

4

- 4 Complete each of the following :

- [a] If  $3 \in \{2, x, 5\}$ , then  $x =$  .....  
[b] If  $5 \in \{3, x+4\}$ , then  $x =$  .....  
[c] If  $8 \in \{7, 5, x-1\}$ , then  $x =$  .....  
[d]  $5\frac{5}{8} \approx$  ..... (to the nearest two decimal places)

4

- 5 Find the perimeter of the rectangle whose length is 4.1 cm.  
and its width is 3.5 cm. , then calculate its area.

2





## Sheet 14

From lesson 1 unit 1  
to lesson 4 unit 2



تفوقك في أي مذكرة عليها العلامة دي  
www.facebook.com/groups/zakroolypr5

Total mark  
20

1 Using the opposite Venn diagram ,  
complete using ( $\in$  ,  $\notin$  ,  $\subset$  or  $\not\subset$ ) :

[a]  $Y \dots\dots\dots X$

[b]  $8 \dots\dots\dots X$

[c]  $\{10\} \dots\dots\dots X$

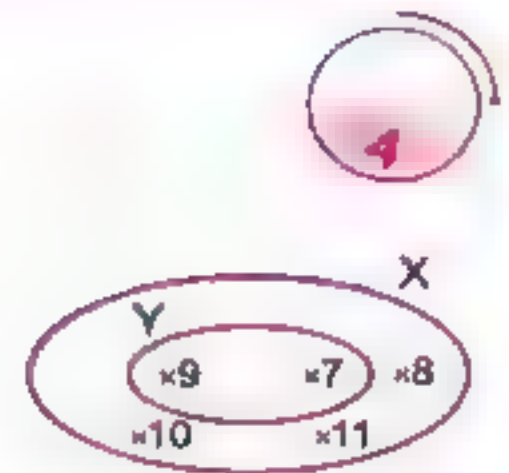
[d]  $11 \dots\dots\dots Y$

[e]  $\emptyset \dots\dots\dots X$

[f]  $\{9, 11\} \dots\dots\dots Y$

[g]  $Y \dots\dots\dots \{10, 11, 9, 7\}$

[h]  $X \dots\dots\dots Y$



2 Write down all the subsets for each of the following sets :

[a]  $\{5, 7\}$

[b]  $\{3, 4, 8\}$

3 Complete each of the following :

[a] If  $\{5, 3, 1\} = \{X, 5, 1\}$  , then  $X = \dots\dots\dots$

[b]  $3.25 \times 1.6 = \dots\dots\dots$

[c]  $9\frac{3}{4} + 3\frac{1}{4} = \dots\dots\dots$

[d] If  $\{7, 10\} \subset \{2, 10, X\}$  , then  $X = \dots\dots\dots$

[e] 70 hours  $\approx$  ..... days. (to the nearest day)

4 Choose the correct answer :

[a]  $\{7\} \dots\dots\dots \{17, 77\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

[b] 7 ..... the set of days of the week. ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

[c]  $\emptyset \dots\dots\dots \{3, 4, 6\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

[d]  $135.42 + 100 = \dots\dots\dots$

( 13 542 or 13.542 or 1.3542 or 1354.2 )

[e]  $\{1, 2, 3, 4, \dots\}$  is ..... set.

( a finite or an infinite or an empty )

5 A worker earns L.E.  $2\frac{1}{2}$  per hour.

How many hours does he work to earn L.E.  $8\frac{3}{4}$  ?



## Sheet 15

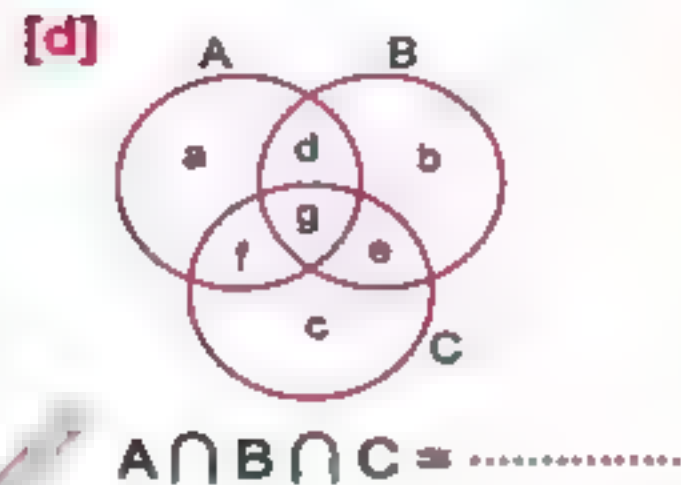
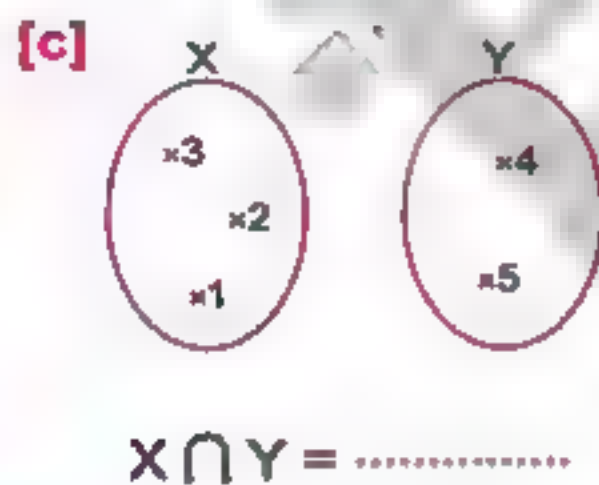
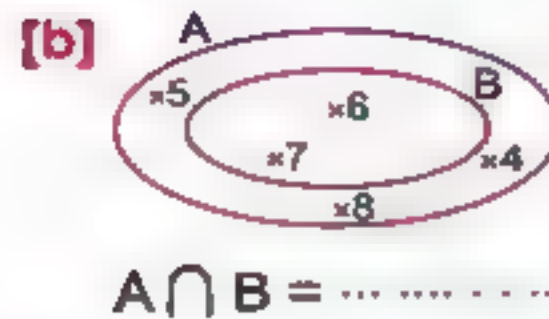
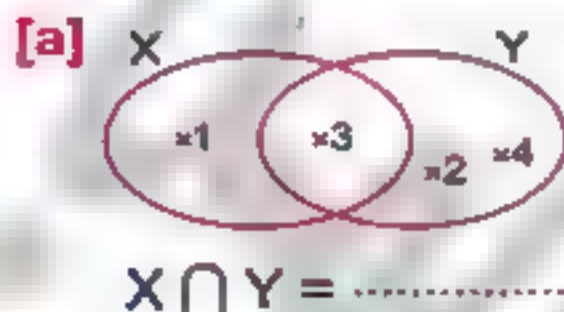
From lesson 1 unit 1  
to lesson 5 unit 2



تفوقك في أي مذكرة عليها العلامة دي  
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Total mark  
20

1 Complete the following :



2 Complete the following :

[a]  $\{1, 2\} \cap \{2, 4\} = \dots\dots\dots$

[b]  $\{1, 3\} \cap \{5\} = \dots\dots\dots$

[c]  $\{1, 3\} \cap \emptyset = \dots\dots\dots$

[d] If  $5 \in \{3, x - 2\}$ , then  $x = \dots\dots\dots$

[e]  $39\frac{2}{5} - 7.25 = \dots\dots\dots \approx \dots\dots\dots$  (to the nearest unit)

3 Choose the correct answer :

[a]  $6.352 \times 100 = \dots\dots\dots$  (63.52 or 635.2 or 6 352 or 63 520)

[b]  $0.03 \times 3.6 = \dots\dots\dots$  (0.108 or 1.08 or 10.8 or 0.0108)

[c]  $2 \dots\dots\dots \{11, 22, 33\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

[d]  $1 \dots\dots\dots \{2, 1, 4\} \cap \{3, 4, 1\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

[e]  $\{a, b\} \dots\dots\dots \{a, b, c\} \cap \{a, c, d\}$  ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

4 Find the result of each of the following :

[a]  $4\frac{1}{4} + 8\frac{1}{2}$

[b]  $6.217 \times 100$

[c]  $11\ 664 + 216$

[d]  $\frac{2}{11}$  approximated to the nearest tenth.

5 If L.E. 565.5 is distributed among some poor people and each of them took L.E. 6.5 Find the number of poor people.



## Sheet 16

From lesson 1 unit 1  
to lesson 6 unit 2



تفوقك في أي مذكرة عليها العلامة دي  
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Total mark  
20

1. Using the opposite Venn diagram , complete :

[a]  $X =$  .....

[b]  $Y =$  .....

[c]  $Z =$  .....

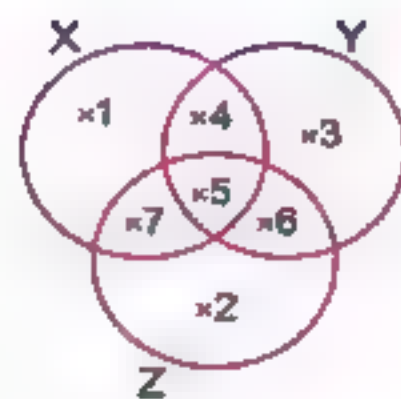
[d]  $X \cup Y =$  .....

[e]  $X \cup Z =$  .....

[f]  $Z \cup Y =$  .....

[g]  $X \cup Y \cup Z =$  .....

[h]  $X \cap Y \cap Z =$  .....



4

2. Choose the correct answer :

[a]  $\{1, 9\}$  ..... the set of odd numbers. ( $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$ )

[b]  $62.5 + 2.5 =$  ..... (25 or 35 or 700 or 45)

[c]  $20.379 \approx$  ..... (to the nearest hundredth)  
(20 or 20.37 or 20.4 or 20.38)

[d]  $\emptyset$  .....  $\{0\}$  ( $=$  or  $\subset$  or  $\not\subset$  or  $\in$ )

[e] If  $X \subset Y$ , then  $X \cap Y =$  ..... ( $X$  or  $Y$  or  $\emptyset$  or  $\{0\}$ )

5

3. Complete the following :

[a] If  $4 \in \{6, x, 9\}$ , then  $x =$  .....

[b] If  $X = \{3, 4\}$ ,  $Y = \{3, 5\}$ , then  $X \cup Y =$  .....

[c]  $3.56 \text{ km.} =$  ..... m.

[d]  $0.45 \times 0.6 =$  .....

[e]  $753.81 \div 100 =$  .....

5

4. [a] Find the value of  $x$  if :  $\frac{1}{4} = \frac{3}{x}$

[b] Arrange ascendingly :  $0.8$ ,  $\frac{3}{8}$ ,  $\frac{3}{4}$  and  $0.6$

4

5. If the price of one kg. of apple is 9.75 pounds.

Find the price of 2.5 kg.

2



Total mark  
20

## Sheet 17

From lesson 1 unit 1  
to lesson 7 unit 2تفوقك في أي مذكرة عليها العلامة دي  
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Using the opposite Venn diagram , complete :

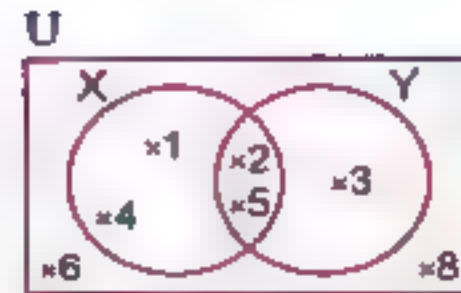
[a]  $U = \dots\dots\dots$

[b]  $X \cap Y = \dots\dots\dots$

[c]  $X \cup Y = \dots\dots\dots$

[d]  $\bar{X} = \dots\dots\dots$

[e]  $\bar{Y} = \dots\dots\dots$



5

If  $A = \{1, 2, 3\}$  ,  $B = \{2, 3, 5\}$  ,  $U = \{1, 2, 3, 4, 5, 6\}$  ,  
represent A , B and U by a Venn diagram , then find :

[a]  $\bar{A}$

[b]  $\bar{B}$

[c]  $A \cap B$

[d]  $A \cup B$

3

Put the suitable sign of ( $\in$  ,  $\notin$  ,  $\subset$  or  $\not\subset$ ) :

[a]  $12 \dots\dots\dots \{10, 2\}$

[b]  $\{7\} \dots\dots\dots$  the set of even numbers.

[c]  $3 \dots\dots\dots \{33\}$

[d]  $\{2, 5, 9\} \dots\dots\dots$  the set of prime numbers.

4

Choose the correct answer :

[a]  $10.57 + 9 \approx \dots\dots\dots$  to the nearest hundredth.

( 1.20 or 1.18 or 1.17 or 1.16 )

[b]  $2\frac{1}{4} \times 1\frac{2}{3} = \dots\dots\dots$

(  $4\frac{1}{4}$  or  $3\frac{3}{4}$  or  $3\frac{7}{12}$  or  $2\frac{2}{12}$  )

[c] Which set is not a subset of  $\{g, h, f\}$  ?

(  $\{f\}$  or  $\{f, g, h\}$  or  $\{\}$  or  $\{gh\}$  )

[d]  $\{3, 2, 5\} \cap \{32, 5\} = \dots\dots\dots$

(  $\{3, 2, 5\}$  or  $\{32, 5\}$  or  $\{5\}$  or  $\{32\}$  )

4

Find the result :

[a]  $937.52 \times 10$

[b]  $355 + 33$  (to the nearest thousandth)

[c]  $7\frac{4}{5} + 3\frac{1}{4}$

[d]  $38.56 + 100$

4



## Sheet 18

From lesson 1 unit 1  
to lesson 8 unit 2



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Total mark  
20

1 Using the opposite Venn diagram , list each of the following :

[a]  $A \cap B$

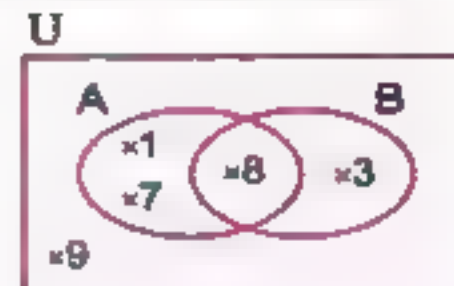
[b]  $A \cup B$

[c]  $A - B$

[d]  $B - A$

[e]  $\bar{A}$

[f]  $\bar{B}$



2 Using the opposite Venn diagram , find :

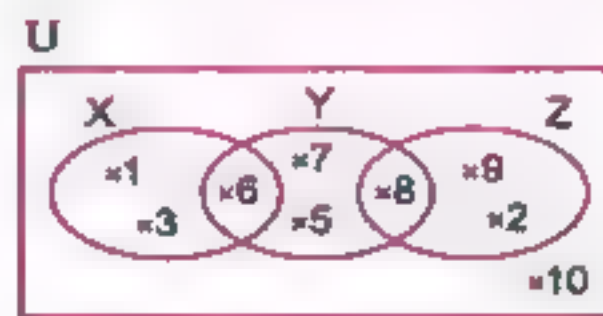
[a]  $X \cap Y$

[b]  $Y \cup Z$

[c]  $Z - Y$

[d]  $\bar{X}$

[e]  $X \cup Y \cup Z$



3 Complete the following :

[a]  $\{2, 3\} \cup \{3, 4\} = \dots\dots\dots$

[b] If  $\{3, 5\} \subset \{3, 10, x\}$  , then  $x = \dots\dots\dots$

[c]  $\{2, 4, 5\} - \{3, 4, 7\} = \dots\dots\dots$

[d] If  $X \subset Y$  , then  $X - Y = \dots\dots\dots$

[e]  $0.54 \times 1000 = \dots\dots\dots$

4 Choose the correct answer :

[a]  $\emptyset \dots\dots\dots \{3, 5\}$

(  $\in$  or  $\notin$  or  $\subset$  or  $\not\subset$  )

[b] If  $\{4, 7, x\} = \{1, 4, 7\}$  , then  $x = \dots\dots\dots$

( 1 or 4 or 5 or 7 )

[c] 45 days  $\approx \dots\dots\dots$  weeks (to the nearest week)

( 5 or 6 or 7 or 8 )

[d] The greatest number in the following is  $\dots\dots\dots$

( 0.111 or 0.12 or 0.123 or 1.023 )

[e] The number of subsets of the set  $\{4, 5\} = \dots\dots\dots$

( 2 or 3 or 4 or 5 )

5 A big barrel has  $131 \frac{1}{4}$  litres of oil and we want to distribute the oil in bottles.

The capacity of each is  $5 \frac{1}{4}$  litres. How many bottles are needed for that ?



هذا العمل حصري على موقع ذاكرولى التعليمي ولا يسمح بنشره في أي مواقع أخرى  
لمزيد من أعمالنا لفضل بزيارة موقعنا على الانترنت <https://www.zakrooly.com>





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Second

Worksheets on unit ③ and unit ④



هذا العمل حصري على موقع ذاكرولي التعليمي ولا يسمح بنشره في أي مواقع أخرى  
لمزيد من أعمالنا لفضل بزيارة موقعنا على الانترنت <https://www.zakrooly.com>



 In the opposite figure , complete :

- 

**Complete the following :**

- 3** Draw a circle of centre M and radius length 3 cm.

**4** Draw a circle N with diameter length 8 cm.

- 5** Draw the circle of centre M with radius length 5 cm. , draw the diameter  $\overline{AB}$  , then draw the chord  $\overline{BC}$  with length 6 cm. , then draw  $\overline{AC}$  and find its length.



## Sheet

2

From lesson 1 unit 3  
to lesson 2 unit 3



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Total mark  
20

[1] [a] Draw the triangle ABC in which  $AB = 7$  cm. ,  $BC = 5$  cm. ,  $AC = 6$  cm.

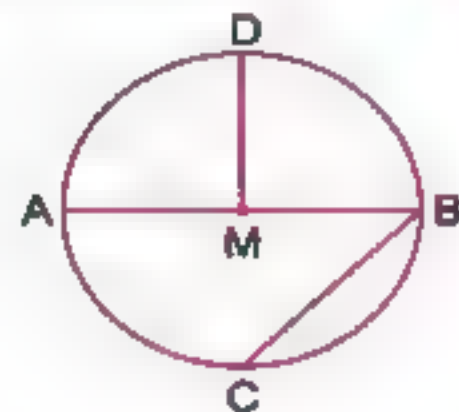
[b] Draw a circle M of radius length 4 cm.

[2] [a] Draw the equilateral triangle XYZ whose side length is 5 cm.

[b] From the opposite figure , complete :

(1)  $\overline{BC}$  is called ..... in the circle M

(2) If  $AB = 10$  cm. , then  $MD =$  ..... cm.



[3] [a] Draw the triangle LMN in which  $LM = MN = 5$  cm. and  $LN = 6$  cm.

[b] Draw a circle M of radius length 5 cm. , then draw the diameter  $\overline{AB}$  and the chord  $\overline{AC}$  of the length 6 cm. Draw  $\overline{BC}$  and find its length.

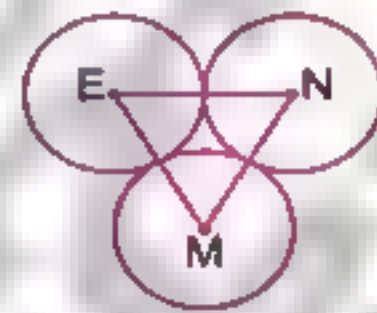
[4] [a] Draw the triangle XYZ , such that  $XY = 3$  cm. ,  $YZ = 4$  cm. and  $XZ = 5$  cm.

What is the type of triangle XYZ according to the measures of its angles ?

[b] In the opposite figure :

Three circles of centres M , N and E  
of radius length 3 cm. for each.

Find the perimeter of  $\triangle MEN$



[5] [a] Draw the equilateral triangle ABC whose perimeter is 12 cm.

[b] From the opposite figure , complete :

(1) ..... is a chord in the circle M

(2)  $m(\angle BAM) = m(\angle \text{.....})$





## Sheet

3



تفوقك في أي مذكرة عليها العلامة دي  
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Total mark  
20

From lesson 1 unit 3  
to lesson 3 unit 3

- 1 Draw the triangle XYZ in which  $XY = 4$  cm. ,  $YZ = 5$  cm. and  $ZX = 6$  cm. , then draw its altitudes (Don't remove the arcs)

4

- 2 Draw the triangle ABC in which  $AB = BC = 5$  cm. and  $AC = 8$  cm. , then draw the altitude from B to  $\overline{AC}$  and measure its length.

4

- 3 Draw the equilateral triangle ABC whose side length = 4 cm. , then draw  $\overline{AD} \perp \overline{BC}$  , find :

4

[a]  $m(\angle CAD)$ [b] The length of  $\overline{BD}$ 

[c] The perimeter of the triangle ABC

- 4 Complete :

4

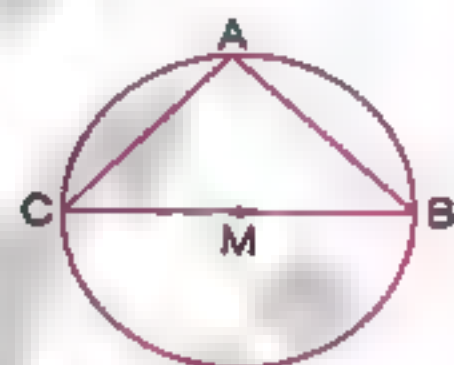
[a] To draw a circle of diameter length 12 cm. , then the opening distance of the compasses should be ..... cm.

[b] The number of altitudes of the right-angled triangle is .....

[d] In the opposite figure :

The greatest chord in the circle M

is .....



[d] The altitudes of the obtuse-angled triangle intersect at one point located ..... the triangle.

- 5 Draw  $\triangle ABC$  in which  $AB = 6$  cm. ,  $BC = 8$  cm. and  $AC = 10$  cm. , then draw  $\overline{BD} \perp \overline{AC}$  , find :

4

[a]  $m(\angle ABC)$ [b] The length of  $\overline{BD}$ 



## Sheet 4

From lesson 1 unit 3  
to lesson 1 unit 4تفوقك في أي مذكرة عليها العلامة دي  
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**1** The following table shows the result of a survey has been applied to know the views of 100 pupils about the favorite game to them :

The game	Football	Handball	Basketball
The number of views	50	40	10

**[a]** If one pupil is chosen at random , answer the following questions :

- (1) What is the probability that one of them prefers football ?
- (2) What is the probability that one of them prefers handball ?
- (3) What is the probability that one of them prefers basketball ?

**[b]** If there are 300 pupils , what is the expected value of the number of pupils who prefer football ?

**[c]** If there are 1000 pupils what is the expected value of the number of pupils who prefer basketball ?

**2** Draw the triangle ABC in which  $AB = 5 \text{ cm.}$  ,  $BC = 5 \text{ cm.}$  and  $AC = 6 \text{ cm.}$  , then draw its altitude from B to  $\overline{AC}$  and measure its length.

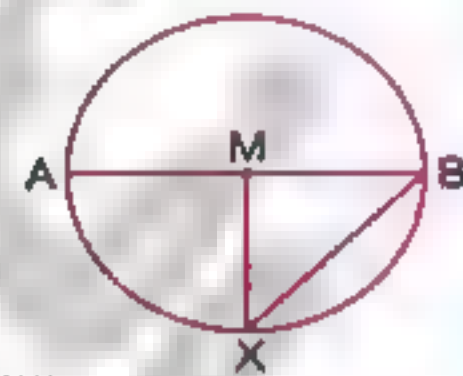
**3** Complete the following :

**[a]** The length of a diameter of a circle whose radius length is 4 cm. = ..... cm.

**[b]** The number of altitudes of any triangle is .....

**[c]** From the opposite figure :

- (1) The longest chord in the circle is ..... and it is called .....
- (2)  $\overline{XB}$  is called ..... in the circle whose centre is .....



**4** Draw a circle M of radius length 5 cm. , then draw the two radii  $\overline{MA}$  and  $\overline{MB}$  where  $m(\angle AMB) = 60^\circ$  , then draw  $\overline{AB}$  and find its length.

**5** Draw the equilateral  $\triangle ABC$  in which its side length is 3 cm. , then find its perimeter.



## Sheet

5



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Total mark  
20

From lesson 1 unit 3  
to lesson 2 unit 4

- 1 A box contains 4 white balls , 3 blue balls and 5 red balls , all of them are of equal size. When one ball is drawn randomly from the box , find the probability of :

[a] blue ball.

[b] red ball.

[c] not red ball.

[d] red or blue ball.

- 2 Complete each of the following :

[a] The probability of the certain event is .....

[b] Any chord passing through the centre of the circle is called a .....

[c] The number of altitudes of the scalene triangle is .....

[d] As throwing a metallic coin once , then the probability of a tail appears = .....

- 3 Choose the correct answer :

[a] It is ..... that the lion flies. ( sure **or** possible **or** impossible )

[b] A letter is selected randomly from the word «MARIAM» , then the probability of selecting the letter «M» is .....

(  $\frac{1}{3}$  **or**  $\frac{1}{2}$  **or**  $\frac{2}{5}$  **or**  $\frac{1}{6}$  )

[c] As throwing a fair die once and observing the appearing number on the upper face , then the probability of appearing an even number is .....

(  $\frac{1}{3}$  **or**  $\frac{1}{2}$  **or**  $\frac{5}{6}$  **or**  $\frac{1}{6}$  )

[d] The probability of the impossible event is .....

(  $\frac{1}{2}$  **or**  $\frac{3}{4}$  **or** 1 **or** 0 )

- 4 A card has been randomly drawn out of 10 cards numbered from 1 to 10 Find the probability of getting :

[a] an odd number.

[b] a prime number.

[c] a number less than 5

[d] a number divisible by 3

- 5 [a] Draw a circle M of diameter length 10 cm. , then draw the diameter  $\overline{AB}$  and draw the chord  $\overline{BC}$  whose length is 5 cm. and draw  $\overline{AC}$  , find  $m(\angle A)$

[b] Draw the triangle ABC in which  $AB = 6$  cm. and  $BC = AC = 5$  cm. , then draw the altitude  $\overline{CD}$  on  $\overline{AB}$  and find its length.



Worksheets on unit 1  
and unit 2

Sheet 1

- [a] 0.74 [b] 152.302 [c] 2.76  
[d] 3.04 [e] 1.000
- [a] hundredth [b] hundredth [c] 4.13  
[d] 4 [e] 49
- [a] 29.821 = 29.82 [b] 8.1054 = 8.105  
[c] 2.355 = 2.35 [d] 0.359 = 0.36  
[e] 13
- The greatest decimal fraction is 0.5432 +  
0.5432 = 0.54 (to the nearest hundredth)  
0.5432 = 0.543 (to the nearest thousandth)
- The sum of lengths of the two pieces of cloth  
= 168.3072 = 168.307 m.

Sheet 2

- [a] > [b] < [c] >  
[d] < [e] < [f] >
- [a] (1) The order is:  $\frac{1}{2} > \frac{3}{4} > \frac{1}{3}$  and  $\frac{7}{10}$   
(2) The order is:  $1\frac{1}{2} > 2.4 > 2\frac{1}{2}$  and  $3\frac{3}{8}$   
[b] (1) The order is:  $1 > \frac{7}{8} > \frac{1}{2}$  and  $\frac{3}{5}$   
(2) The order is:  $0.8 > \frac{3}{4} > \frac{1}{2} > 0.4$  and  $\frac{1}{4}$
- [a] 37.26 [b] 9  
[c] thousandth [d] 9 [e] 0.01
- X = 8 or 7 or 6 or 5 or 4
- The smallest decimal fraction is 0.2349.  
0.2349 = 0.235 (to the nearest thousandth)

Sheet 3

- [a] 3256.3 [b] 25.083 [c] 7003  
[d] 9 [e] 4.63
- [a] > [b] = [c] 6  
[d] hundredth [e] 100
- [a] x [b] ✓ [c] ✓  
[d] x [e] x
- The price of pieces =  $2.25 \times 10 = 22.5$  pounds
- [a] (1) 406.1 (2) 741.8  
[b] The order is:  $4.025 > 4\frac{1}{4} > 4\frac{1}{4}$  and 4.375

Sheet 4

- [a] 37.1 [b] 1.44 [c] 0.042  
[d] 17.28 [e] 0.714
- [a] 0.0082 [b] length [c] >  
[d] = [e] 426.31
- [a] 3.561 [b] 20.132 = 20.13  
[c] 26.85 = 26.9 [d] 73  
[e] 16.9329 = 16.933
- The area of the rectangle =  $2.4 \times 4.5$   
= 10.8 cm<sup>2</sup> = 11 cm<sup>2</sup>
- The price of cloth =  $2.25 \times 7.75$   
= 17.4375 = 17 pounds.

Sheet 5

- [a]  $\frac{3}{8}$  [b] 10 [c]  $15\frac{3}{10}$   
[d] 1.75 [e] 3.759
- [a] 38.623 [b]  $\frac{3}{8}$  [c] <  
[d] 93.499 [e] 7

Answers of the Worksheets

Sheet 8

- [a] 32 [b] 24 [c] 78
- [a] 28 [b] = [c] <  
[d] 8 [e] 56
- [a] 14.87 [b] 3.200 [c] 15  
[d] 0.0485 [e] 0.75351
- The number of trips =  $19.440 \div 162$   
= 120 trips.
- [a] Ahmed paid =  $12 \times 1.85 = 22.2$  pounds.  
[b] The order is:  $\frac{3}{8} > 0.5 > 0.8$  and  $\frac{5}{8}$

Sheet 9

- [a] 41 [b] 32 [c] 14  
[d] 7463.2 [e] 58.546 = 58.55
- [a] 84.6 [b] > [c] =  
[d] 14 [e] 109
- The number of parts =  $53.55 \div 3.15 = 17$  parts.
- The number =  $1.248 \div 0.52 = 2.4$
- The area =  $13.25 \times 6.14 = 81.355 = 81.36$  cm<sup>2</sup>

Sheet 10

- [a] 2.8 [b] 3.29 [c] 4.23 [d] 13.7
- [a]  $\frac{1}{2}$  [b] 15.7 [c] 6  
[d] < [e] 13
- [a] 6 [b] 0.2 [c]  $\frac{49}{59}$   
[d] 84 [e] 453.37
- The order is:  $3\frac{1}{8} > 3\frac{3}{8} > 3\frac{1}{2} > 3\frac{3}{4}$  and  $4\frac{1}{4}$
- The family pays =  $38.6 \times 6.6 =$  L.E. 250.25  
= L.E. 250

Sheet 6

- [a]  $\frac{1}{2} = 2\frac{1}{2}$  [b] 26.048 [c] 3.500  
[d] 2.38 [e] 1
- [a] The order is:  $1 > \frac{7}{8} > \frac{1}{2}$  and  $\frac{5}{8}$   
[b] (1) < (2) <
- The price of bars =  $2\frac{3}{4} \times 15 = 41.25$  pounds.
- [a] 2 [b]  $\frac{1}{4}$  [c] 18  
[d]  $\frac{7}{8} = 3\frac{1}{2}$  [e]  $\frac{1}{2}$
- [a] > [b] > [c] =  
[d] < [e] =
- [a] 23.35 [b] 256 [c] 2.53  
[d]  $\frac{1}{8}$  [e]  $\frac{7}{8}$
- The side length =  $\frac{8}{11} \div 4 = \frac{2}{11}$  m.
- The price of the cloth =  $4.2 \times 49.7$   
= 209.54 = 205 pounds.

Sheet 7

- [a] 0.84 [b] 0.036 [c] 2.4568  
[d] 0.3725 [e] 6
- [a] 1.000 [b] < [c] >  
[d]  $\frac{3}{8}$  [e] 6
- The order is:  $\frac{1}{12} > \frac{2}{3} > \frac{3}{4} > \frac{5}{8}$  and  $\frac{11}{12}$
- The length of the road =  $64.983 \div 1.000$   
= 64.98 km.
- The share of each one =  $565.5 \div 10$   
= L.E. 56.55



هذا العمل حصري على موقع ذا كروولي التعليمي ويسمح بمشاركته فقط ولا يسمح بتداوله على الانترنت



### Sheet 11

- [a] set [b] set [c] not set  
[d] not set [e] set
- [a] The elements are: 7, 4, 5, 8 and 1  
[b] The elements are: a, t, u, d, e and n  
[c] The elements are: 6, 7, 8 and 9  
[d] The elements are: 0, 2, 4, 6 and 8  
[e] The elements are: 1, 2, 3 and 6
- [a] 10 [b] 4533.4 [c] 101  
[d] 72.36 [e] 37.44
- The height of the building =  $3.05 \times 7$   
= 21.35 metres.
- The order is:  $\frac{4}{5} > \frac{3}{4} > \frac{1}{2} > 0.4$  and  $\frac{1}{5}$

### Sheet 12

- [a] A = {Saturday, Sunday, Monday, Tuesday, Wednesday, Thursday, Friday}  
[b] B = {3, 2} [c] C = {d, o, r}  
[d] D = {2, 3, 5, 7}  
[e] E = {8, 10, 12, 14, 16}
- [a] A = The set of governorates on the Suez Canal  
[b] B = The set of digits of the number 531  
[c] C = The set of prime numbers between 10 and 18  
[d] D = The set of whole numbers between 8 and 13  
[e] E = The set of letters of the word "goal"
- [a] {1, 2, 3, 4, 5}  
[b] {3, 4, 6, 8, 7} [c] {4, 5, 6, 8}  
[d] {3, 4} [e] {4}

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- [a] 6 [b] 257.6 [c] 5  
[d] 0.738 [e]  $\frac{14}{5} = 2\frac{4}{5}$
- The price of pieces  
=  $4.35 \times 35 = 152.25$  pounds.

### Sheet 13

- [a]  $\in$  [b]  $\in$  [c]  $\notin$  [d]  $\in$  [e]  $\notin$
- [a] empty [b] finite [c] infinite  
[d] finite [e] empty
- [a]  $\frac{2}{3}$  [b] > [c] 3.2 [d] 28.832
- [a] 3 [b] 1 [c] 9 [d] 5.83
- The perimeter =  $(4.1 + 3.5) \times 2 = 15.2$  cm.  
The area =  $4.1 \times 3.5 = 14.35$  cm<sup>2</sup>

### Sheet 14

- [a]  $\subset$  [b]  $\in$  [c]  $\subset$   
[d]  $\notin$  [e]  $\subset$  [f]  $\subset$   
[g]  $\subset$  [h]  $\subset$
- [a]  $\emptyset$  [b] {5} [c] {5, 7}  
[d]  $\emptyset$  [e] {3} [f] {4} [g] {0} [h] {3, 4} [i] {3, 8} [j] {4, 8} [k] {3, 4, 8}
- [a] 3 [b] 5.2 [c] 3  
[d] 7 [e] 3
- [a]  $\subset$  [b]  $\notin$  [c]  $\subset$   
[d] 1,3542 [e] an infinite
- The number of hours =  $8\frac{3}{4} \div 2\frac{1}{2}$   
=  $3\frac{1}{2}$  hours.

### Sheet 15

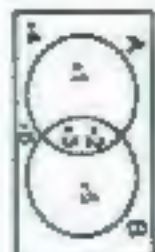
- [a] {3} [b] {6, 7} [c]  $\emptyset$  [d] {9}
- [a] {2} [b]  $\emptyset$  [c]  $\emptyset$  [d] 7  
[e]  $32.15 = 32$
- [a] 635.2 [b] 0.108 [c]  $\notin$  [d]  $\in$  [e]  $\subset$
- [a]  $\frac{1}{2}$  [b] 621.7 [c] 54 [d] 0.2
- The number of poor people  
=  $585.5 \div 6.5 = 87$  persons.

### Sheet 16

- [a] {1, 4, 5, 7} [b] {3, 4, 5, 6} [c] {2, 5, 6, 7} [d] {1, 4, 5, 7, 3, 6} [e] {1, 2, 4, 5, 6, 7} [f] {2, 3, 4, 5, 6, 7} [g] {1, 2, 3, 4, 5, 6, 7} [h] {5}
- [a]  $\subset$  [b] 25 [c] 20.38 [d]  $\subset$  [e] X
- [a] 4 [b] {3, 4, 5} [c] 3.560 [d] 0.27 [e] 7.5381
- [a] 12 [b] The order is:  $\frac{3}{4}, 0.6, \frac{2}{3}$  and 0.8
- The price of apples =  $9.75 \times 2.5$   
= 24.375 pounds.

### Sheet 17

- [a] {1, 2, 3, 4, 5, 8, 9} [b] {2, 5} [c] {1, 2, 3, 4, 5} [d] {3, 6, 8} [e] {1, 4, 6, 8}
- [a] A = {5, 4, 6} [b] B = {1, 4, 6} [c] A  $\cap$  B = {2, 3} [d] A  $\cup$  B = {1, 2, 3, 5}



- [a]  $\notin$  [b]  $\subset$  [c]  $\notin$  [d]  $\subset$
- [a] 1, 17 [b]  $3\frac{3}{4}$  [c] {gh} [d] {5}
- [a] 9375.2 [b] 10.766 [c] 0.3856 [d]  $2\frac{1}{2}$

### Sheet 18

- [a] {8} [b] {1, 3, 7, 8} [c] {1, 7} [d] {3} [e] {3, 9} [f] {1, 7, 9}
- [a] {6} [b] {2, 5, 6, 7, 8, 9} [c] {2, 9} [d] {2, 5, 7, 8, 9, 10} [e] {1, 2, 3, 5, 6, 7, 8, 9}
- [a] {2, 3, 4} [b] 5 [c] {2, 5} [d]  $\emptyset$  [e] 540
- [a]  $\subset$  [b] 1 [c] 6 [d] 1,023 [e] 4
- The number of bottles =  $13\frac{1}{2} \div 5\frac{1}{2}$   
= 25 bottles.

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Worksheets on unit 3  
Second and unit 4

Sheet 1

- [a] diameter [b] chord [c] radius [d] M
- [a] diameter [b] equal in length [c] 14 [d] diameter
- Draw by yourself.
- Draw by yourself.
- 



The length of  $\overline{AC} = 8$  cm.

Sheet 2

- [a] [b] [c] [d] [e] [f] [g] [h] [i] [j] [k] [l] [m] [n] [o] [p] [q] [r] [s] [t] [u] [v] [w] [x] [y] [z] [aa] [ab] [ac] [ad] [ae] [af] [ag] [ah] [ai] [aj] [ak] [al] [am] [an] [ao] [ap] [aq] [ar] [as] [at] [au] [av] [aw] [ax] [ay] [az] [ba] [bb] [bc] [bd] [be] [bf] [bg] [bh] [bi] [bj] [bk] [bl] [bm] [bn] [bo] [bp] [bq] [br] [bs] [bt] [bu] [bv] [bw] [bx] [by] [bz] [ca] [cb] [cc] [cd] [ce] [cf] [cg] [ch] [ci] [cj] [ck] [cl] [cm] [cn] [co] [cp] [cq] [cr] [cs] [ct] [cu] [cv] [cw] [cx] [cy] [cz] [da] [db] [dc] [dd] [de] [df] [dg] [dh] [di] [dj] [dk] [dl] [dm] [dn] [do] [dp] [dq] [dr] [ds] [dt] [du] [dv] [dw] [dx] [dy] [dz] [ea] [eb] [ec] [ed] [ee] [ef] [eg] [eh] [ei] [ej] [ek] [el] [em] [en] [eo] [ep] [eq] [er] [es] [et] [eu] [ev] [ew] [ex] [ey] [ez] [fa] [fb] [fc] [fd] [fe] [ff] [fg] [fh] [fi] [fj] [fk] [fl] [fm] [fn] [fo] [fp] [fq] [fr] [fs] [ft] [fu] [fv] [fw] [fx] [fy] [fz] [ga] [gb] [gc] [gd] [ge] [gf] [gg] [gh] [gi] [gj] [gk] [gl] [gm] [gn] [go] [gp] [gq] [gr] [gs] [gt] [gu] [gv] [gw] [gx] [gy] [gz] [ha] [hb] [hc] [hd] [he] [hf] [hg] [hh] [hi] [hj] [hk] [hl] [hm] [hn] [ho] [hp] [hq] [hr] [hs] [ht] [hu] [hv] [hw] [hx] [hy] [hz] [ia] [ib] [ic] [id] [ie] [if] [ig] [ih] [ii] [ij] [ik] [il] [im] [in] [io] [ip] [iq] [ir] [is] [it] [iu] [iv] [iw] [ix] [iy] [iz] [ja] [jb] [jc] [jd] [je] [jf] [jg] [jh] [ji] [jj] [jk] [jl] [jm] [jn] [jo] [jp] [jq] [jr] [js] [jt] [ju] [jv] [jw] [jx] [jy] [jz] [ka] [kb] [kc] [kd] [ke] [kf] [kg] [kh] [ki] [kj] [kk] [kl] [km] [kn] [ko] [kp] [kq] [kr] [ks] [kt] [ku] [kv] [kw] [kx] [ky] [kz] [la] [lb] [lc] [ld] [le] [lf] [lg] [lh] [li] [lj] [lk] [ll] [lm] [ln] [lo] [lp] [lq] [lr] [ls] [lt] [lu] [lv] [lw] [lx] [ly] [lz] [ma] [mb] [mc] [md] [me] [mf] [mg] [mh] [mi] [mj] [mk] [ml] [mm] [mn] [mo] [mp] [mq] [mr] [ms] [mt] [mu] [mv] [mw] [mx] [my] [mz] [na] [nb] [nc] [nd] [ne] [nf] [ng] [nh] [ni] [nj] [nk] [nl] [nm] [nn] [no] [np] [nq] [nr] [ns] [nt] [nu] [nv] [nw] [nx] [ny] [nz] [oa] [ob] [oc] [od] [oe] [of] [og] [oh] [oi] [oj] [ok] [ol] [om] [on] [oo] [op] [oq] [or] [os] [ot] [ou] [ov] [ow] [ox] [oy] [oz] [pa] [pb] [pc] [pd] [pe] [pf] [pg] [ph] [pi] [pj] [pk] [pl] [pm] [pn] [po] [pp] [pq] [pr] [ps] [pt] [pu] [pv] [pw] [px] [py] [pz] [qa] [qb] [qc] [qd] [qe] [qf] [qg] [qh] [qi] [qj] [qk] [ql] [qm] [qn] [qo] [qp] [qq] [qr] [qs] [qt] [qu] [qv] [qw] [qx] [qy] [qz] [ra] [rb] [rc] [rd] [re] [rf] [rg] [rh] [ri] [rj] [rk] [rl] [rm] [rn] [ro] [rp] [rq] [rr] [rs] [rt] [ru] [rv] [rw] [rx] [ry] [rz] [sa] [sb] [sc] [sd] [se] [sf] [sg] [sh] [si] [sj] [sk] [sl] [sm] [sn] [so] [sp] [sq] [sr] [ss] [st]